Chi-Hsien Huang

List of Publications by Year
in descending order

38 papers	856 citations	516561 16 h-index	477173 29 g-index
38 all docs	38 docs citations	38 times ranked	1428 citing authors

#	Article	IF	Citations
1	Electrochemical sensors for sulfamethoxazole detection based on graphene oxide/graphene layered composite on indium tin oxide substrate. Journal of the Taiwan Institute of Chemical Engineers, 2022, 131, 104155.	2.7	22
2	Colloidal synthesis of perovskite-type lanthanum aluminate incorporated graphene oxide composites: Electrochemical detection of nitrite in meat extract and drinking water. Mikrochimica Acta, 2022, 189, 210.	2.5	18
3	Nanohollow Titanium Oxide Structures on Ti/FTO Glass Formed by Step-Bias Anodic Oxidation for Photoelectrochemical Enhancement. Nanomaterials, 2022, 12, 1925.	1.9	2
4	Synthesis of Yolk/Shell heterostructures MOF@MOF as biomimetic sensing platform for catechol detection. Sensors and Actuators B: Chemical, 2021, 329, 129133.	4.0	25
5	Graphene/Silver Nanowires/Graphene Sandwich Composite for Stretchable Transparent Electrodes and Its Fracture Mechanism. Micromachines, 2021, 12, 512.	1.4	4
6	Dual-Gate Enhancement of the Sensitivity of miRNA Detection of a Solution-Gated Field-Effect Transistor Featuring a Graphene Oxide/Graphene Layered Structure. ACS Applied Electronic Materials, 2021, 3, 4300-4307.	2.0	9
7	Development and In Vitro Biodegradation of Biomimetic Zwitterionic Phosphorylcholine Chitosan Coating on Zn1Mg Alloy. ACS Applied Materials & Interfaces, 2020, 12, 54445-54458.	4.0	15
8	A chemiresistive biosensor based on a layered graphene oxide/graphene composite for the sensitive and selective detection of circulating miRNA-21. Biosensors and Bioelectronics, 2020, 164, 112320.	5.3	41
9	Potential-controlled pulse electrochemical deposition of poly nanostructural two-dimensional molybdenum disulfide thin films as a counter electrode for dye-sensitized solar cells. Surface and Coatings Technology, 2020, 394, 125855.	2.2	9
10	Layered graphene composite for flexible bioelectrical sensor applications. Surface and Coatings Technology, 2020, 397, 125973.	2.2	4
11	Facile synthesis of multi-layer graphene-like graphitic structure using commercial candle as the solid-state carbon source for electrochemical supercapacitors. Surface and Coatings Technology, 2020, 398, 126075.	2.2	5
12	Highly-porous hierarchically microstructure of graphene-decorated nickel foam supported two-dimensional quadrilateral shapes of cobalt sulfide nanosheets as efficient electrode for methanol oxidation. Surface and Coatings Technology, 2020, 393, 125850.	2.2	12
13	Temperature Effect of Low-Damage Plasma for Nitrogen-Modification of Graphene. ECS Journal of Solid State Science and Technology, 2020, 9, 121007.	0.9	2
14	Surface Micro-/Nanotextured Hybrid PEDOT:PSS-Silicon Photovoltaic Cells Employing Kirigami Graphene. ACS Applied Materials & Interfaces, 2019, 11, 29901-29909.	4.0	16
15	Carbon Nanotube/Conducting Polymer Hybrid Nanofibers as Novel Organic Bioelectronic Interfaces for Efficient Removal of Protein-Bound Uremic Toxins. ACS Applied Materials & Interfaces, 2019, 11, 43843-43856.	4.0	40
16	Effects of Ï€-electron in humidity sensing of artificially stacked graphene bilayers modified with carboxyl and hydroxyl groups. Sensors and Actuators B: Chemical, 2019, 301, 127020.	4.0	10
17	Hydrogen plasma-treated MoSe₂ nanosheets enhance the efficiency and stability of organic photovoltaics. Nanoscale, 2019, 11, 17460-17470.	2.8	14
18	A low-damage plasma surface modification method of stacked graphene bilayers for configurable wettability and electrical properties. Nanotechnology, 2019, 30, 245709.	1.3	13

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19	Rapid oxidation of CVD-grown graphene using mild atmospheric pressure O2 plasma jet. Surface and Coatings Technology, 2018, 350, 1085-1090.	2.2	9
20	Fabrication of two-dimensional photonic crystals of tethered polyvinyltetrazole on silicon surfaces for visualization in Cu 2+ ion sensing. Dyes and Pigments, 2017, 139, 300-309.	2.0	29
21	Pillar arrays of tethered polyvinyltetrazole on silicon as a visualization platform for sensing of lead ions. Sensors and Actuators B: Chemical, 2017, 243, 234-243.	4.0	25
22	Flexible Transparent Electrode of Hybrid Ag-Nanowire/Reduced-Graphene-Oxide Thin Film on PET Substrate Prepared Using H2/Ar Low-Damage Plasma. Polymers, 2017, 9, 28.	2.0	8
23	Pre-Clinical Tests of an Integrated CMOS Biomolecular Sensor for Cardiac Diseases Diagnosis. Sensors, 2017, 17, 2733.	2.1	9
24	Hybrid carbon nanotube/silicon Schottky junction solar cells. , 2016, , .		1
25	A microfluidic device integrating dual CMOS polysilicon nanowire sensors for on-chip whole blood processing and simultaneous detection of multiple analytes. Lab on A Chip, 2016, 16, 3105-3113.	3.1	36
26	Preparation of large-area graphene oxide sheets with a high density of carboxyl groups using O2/H2 low-damage plasma. Surface and Coatings Technology, 2016, 303, 170-175.	2.2	19
27	The hierarchical porosity of a three-dimensional graphene electrode for binder-free and high performance supercapacitors. RSC Advances, 2016, 6, 8384-8394.	1.7	23
28	Efficiency Enhancement of Organic/GaAs Hybrid Photovoltaic Cells Using Transparent Graphene as Front Electrode. IEEE Journal of Photovoltaics, 2016, 6, 480-485.	1.5	12
29	Ultra-large suspended graphene as a highly elastic membrane for capacitive pressure sensors. Nanoscale, 2016, 8, 3555-3564.	2.8	100
30	Synthesis of sub-10 nm VO2 nanoparticles films with plasma-treated glass slides by aqueous solâ€“gel method. Applied Surface Science, 2015, 357, 2069-2076.	3.1	21
31	Ultra-low-damage radical treatment for the highly controllable oxidation of large-scale graphene sheets. Carbon, 2014, 73, 244-251.	5.4	28
32	Oneâ€Step Formation of a Single Atomicâ€Layer Transistor by the Selective Fluorination of a Graphene Film. Small, 2014, 10, 989-997.	5.2	59
33	Fabrication of metamaterial absorber using polymer brush â€“ gold nanoassemblies for visualizing the reversible pH-responsiveness. Journal of Materials Chemistry C, 2014, 2, 8226-8234.	2.7	19
34	Fluorinated Graphene as High Performance Dielectric Materials and the Applications for Graphene Nanoelectronics. Scientific Reports, 2014, 4, 5893.	1.6	147
35	Electrical probing of multi-ions solution by using graphene-based sensor. , 2013, , .		4
36	High Polarization and Low-Repulsion ${m HfO}_{2}$ Thin Film for Alkali Metal Ion Detections by Plasma System With a Complementary Filter. IEEE Sensors Journal, 2013, 13, 2459-2465.	2.4	7

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37	Ultra-low-edge-defect graphene nanoribbons patterned by neutral beam. Carbon, 2013, 61, 229-235.	5.4	33
38	Tunable bandgap energy of fluorinated nanocrystals for flash memory applications produced by low-damage plasma treatment. Nanotechnology, 2012, 23, 475201.	1.3	6