

Chi-Hsien Huang

List of Publications by Year in descending order

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38
papers

856
citations

516561

16
h-index

477173

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all docs

38
docs citations

38
times ranked

1428
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluorinated Graphene as High Performance Dielectric Materials and the Applications for Graphene Nanoelectronics. <i>Scientific Reports</i> , 2014, 4, 5893.	1.6	147
2	Ultra-large suspended graphene as a highly elastic membrane for capacitive pressure sensors. <i>Nanoscale</i> , 2016, 8, 3555-3564.	2.8	100
3	One-Step Formation of a Single Atomic-Layer Transistor by the Selective Fluorination of a Graphene Film. <i>Small</i> , 2014, 10, 989-997.	5.2	59
4	A chemiresistive biosensor based on a layered graphene oxide/graphene composite for the sensitive and selective detection of circulating miRNA-21. <i>Biosensors and Bioelectronics</i> , 2020, 164, 112320.	5.3	41
5	Carbon Nanotube/Conducting Polymer Hybrid Nanofibers as Novel Organic Bioelectronic Interfaces for Efficient Removal of Protein-Bound Uremic Toxins. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 43843-43856.	4.0	40
6	A microfluidic device integrating dual CMOS polysilicon nanowire sensors for on-chip whole blood processing and simultaneous detection of multiple analytes. <i>Lab on A Chip</i> , 2016, 16, 3105-3113.	3.1	36
7	Ultra-low-edge-defect graphene nanoribbons patterned by neutral beam. <i>Carbon</i> , 2013, 61, 229-235.	5.4	33
8	Fabrication of two-dimensional photonic crystals of tethered polyvinyltetrazole on silicon surfaces for visualization in Cu ²⁺ ion sensing. <i>Dyes and Pigments</i> , 2017, 139, 300-309.	2.0	29
9	Ultra-low-damage radical treatment for the highly controllable oxidation of large-scale graphene sheets. <i>Carbon</i> , 2014, 73, 244-251.	5.4	28
10	Pillar arrays of tethered polyvinyltetrazole on silicon as a visualization platform for sensing of lead ions. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 234-243.	4.0	25
11	Synthesis of Yolk/Shell heterostructures MOF@MOF as biomimetic sensing platform for catechol detection. <i>Sensors and Actuators B: Chemical</i> , 2021, 329, 129133.	4.0	25
12	The hierarchical porosity of a three-dimensional graphene electrode for binder-free and high performance supercapacitors. <i>RSC Advances</i> , 2016, 6, 8384-8394.	1.7	23
13	Electrochemical sensors for sulfamethoxazole detection based on graphene oxide/graphene layered composite on indium tin oxide substrate. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022, 131, 104155.	2.7	22
14	Synthesis of sub-10 nm VO ₂ nanoparticles films with plasma-treated glass slides by aqueous sol-gel method. <i>Applied Surface Science</i> , 2015, 357, 2069-2076.	3.1	21
15	Fabrication of metamaterial absorber using polymer brush-gold nanoassemblies for visualizing the reversible pH-responsiveness. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8226-8234.	2.7	19
16	Preparation of large-area graphene oxide sheets with a high density of carboxyl groups using O ₂ /H ₂ low-damage plasma. <i>Surface and Coatings Technology</i> , 2016, 303, 170-175.	2.2	19
17	Colloidal synthesis of perovskite-type lanthanum aluminate incorporated graphene oxide composites: Electrochemical detection of nitrite in meat extract and drinking water. <i>Mikrochimica Acta</i> , 2022, 189, 210.	2.5	18
18	Surface Micro-/Nanotextured Hybrid PEDOT:PSS-Silicon Photovoltaic Cells Employing Kirigami Graphene. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 29901-29909.	4.0	16

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19	Development and <i>In Vitro</i> Biodegradation of Biomimetic Zwitterionic Phosphorylcholine Chitosan Coating on Zn/Mg Alloy. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 54445-54458.	4.0	15
20	Hydrogen plasma-treated MoSe ₂ nanosheets enhance the efficiency and stability of organic photovoltaics. <i>Nanoscale</i> , 2019, 11, 17460-17470.	2.8	14
21	A low-damage plasma surface modification method of stacked graphene bilayers for configurable wettability and electrical properties. <i>Nanotechnology</i> , 2019, 30, 245709.	1.3	13
22	Efficiency Enhancement of Organic/GaAs Hybrid Photovoltaic Cells Using Transparent Graphene as Front Electrode. <i>IEEE Journal of Photovoltaics</i> , 2016, 6, 480-485.	1.5	12
23	Highly-porous hierarchically microstructure of graphene-decorated nickel foam supported two-dimensional quadrilateral shapes of cobalt sulfide nanosheets as efficient electrode for methanol oxidation. <i>Surface and Coatings Technology</i> , 2020, 393, 125850.	2.2	12
24	Effects of π -electron in humidity sensing of artificially stacked graphene bilayers modified with carboxyl and hydroxyl groups. <i>Sensors and Actuators B: Chemical</i> , 2019, 301, 127020.	4.0	10
25	Pre-Clinical Tests of an Integrated CMOS Biomolecular Sensor for Cardiac Diseases Diagnosis. <i>Sensors</i> , 2017, 17, 2733.	2.1	9
26	Rapid oxidation of CVD-grown graphene using mild atmospheric pressure O ₂ plasma jet. <i>Surface and Coatings Technology</i> , 2018, 350, 1085-1090.	2.2	9
27	Potential-controlled pulse electrochemical deposition of poly nanostructural two-dimensional molybdenum disulfide thin films as a counter electrode for dye-sensitized solar cells. <i>Surface and Coatings Technology</i> , 2020, 394, 125855.	2.2	9
28	Dual-Gate Enhancement of the Sensitivity of miRNA Detection of a Solution-Gated Field-Effect Transistor Featuring a Graphene Oxide/Graphene Layered Structure. <i>ACS Applied Electronic Materials</i> , 2021, 3, 4300-4307.	2.0	9
29	Flexible Transparent Electrode of Hybrid Ag-Nanowire/Reduced-Graphene-Oxide Thin Film on PET Substrate Prepared Using H ₂ /Ar Low-Damage Plasma. <i>Polymers</i> , 2017, 9, 28.	2.0	8
30	High Polarization and Low-Repulsion HfO_2 Thin Film for Alkali Metal Ion Detections by Plasma System With a Complementary Filter. <i>IEEE Sensors Journal</i> , 2013, 13, 2459-2465.	2.4	7
31	Tunable bandgap energy of fluorinated nanocrystals for flash memory applications produced by low-damage plasma treatment. <i>Nanotechnology</i> , 2012, 23, 475201.	1.3	6
32	Facile synthesis of multi-layer graphene-like graphitic structure using commercial candle as the solid-state carbon source for electrochemical supercapacitors. <i>Surface and Coatings Technology</i> , 2020, 398, 126075.	2.2	5
33	Electrical probing of multi-ions solution by using graphene-based sensor. , 2013, , .		4
34	Layered graphene composite for flexible bioelectrical sensor applications. <i>Surface and Coatings Technology</i> , 2020, 397, 125973.	2.2	4
35	Graphene/Silver Nanowires/Graphene Sandwich Composite for Stretchable Transparent Electrodes and Its Fracture Mechanism. <i>Micromachines</i> , 2021, 12, 512.	1.4	4
36	Temperature Effect of Low-Damage Plasma for Nitrogen-Modification of Graphene. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 121007.	0.9	2

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37	Nanohollow Titanium Oxide Structures on Ti/FTO Glass Formed by Step-Bias Anodic Oxidation for Photoelectrochemical Enhancement. <i>Nanomaterials</i> , 2022, 12, 1925.	1.9	2
38	Hybrid carbon nanotube/silicon Schottky junction solar cells. , 2016, , .		1