

I-Wen Peter Chen

List of Publications by Year in descending order

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1688
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#	ARTICLE	IF	CITATIONS
1	Covalently Interconnected Polymer Dotâ€“WS ₂ Nanosheet Heterostructure for Visible Light-Driven Hydrogen Production. ACS Applied Nano Materials, 2022, 5, 2163-2174.	2.4	7
2	Layer-by-Layer Exfoliation of Transition-Metal Dichalcogenides by Amino Acid in Water for Promoting Hydrogen Evolution Reaction. Journal of Physical Chemistry C, 2022, 126, 6207-6214.	1.5	1
3	Active Edge Site Exposed Ni(OH) ₂ Nanosheets on Stainless Steel Mesh as a Versatile Electrocatalyst for the Oxidation of Urea, Hydrazine, and Water. ChemCatChem, 2021, 13, 1165-1174.	1.8	13
4	Exfoliation of 2D materials by saponin in water: Aerogel adsorption / photodegradation organic dye. Chemosphere, 2021, 274, 129795.	4.2	15
5	Coupling of Thermal and Electrochemical-Activated Stainless-Steel Mesh as a Highly Robust Electrocatalyst for Oxygen Evolution Reaction. ACS Applied Energy Materials, 2021, 4, 10404-10413.	2.5	10
6	One-Pot Synthesis of Chlorophyll-Assisted Exfoliated MoS ₂ /WS ₂ Heterostructures via Liquid-Phase Exfoliation Method for Photocatalytic Hydrogen Production. Nanomaterials, 2021, 11, 2436.	1.9	8
7	In situ recycling of particulate matter for a high-performance supercapacitor and oxygen evolution reaction. Materials Chemistry Frontiers, 2021, 5, 2742-2748.	3.2	1
8	Tuning surface d bands with bimetallic electrodes to facilitate electron transport across molecular junctions. Nature Materials, 2021, 20, 658-664.	13.3	47
9	Tuning the surface charge density of exfoliated thin molybdenum disulfide sheets via non-covalent functionalization for promoting hydrogen evolution reaction. Journal of Materials Chemistry C, 2020, 8, 510-517.	2.7	17
10	Binder-Free Heterostructured NiFe ₂ O ₄ /NiFe LDH Nanosheet Composite Electrocatalysts for Oxygen Evolution Reactions. ACS Applied Energy Materials, 2020, 3, 10831-10840.	2.5	51
11	Synthesis of high-quality monolayer tungsten disulfide with chlorophylls and its application for enhancing bone regeneration. Npj 2D Materials and Applications, 2020, 4, .	3.9	17
12	Importance of Cobalt-Doping for the Preparation of Hollow CuBr/Co@CuO Nanocorals on Copper Foils with Enhanced Electrocatalytic Activity and Stability for Oxygen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 2020, 8, 9794-9802.	3.2	13
13	The synergistic effects of graphene-contained 3D-printed calcium silicate/poly-Îµ-caprolactone scaffolds promote FGFR-induced osteogenic/angiogenic differentiation of mesenchymal stem cells. Materials Science and Engineering C, 2019, 104, 109887.	3.8	56
14	Integration of Ultrathin MoS ₂ /PANI/CNT Composite Paper in Producing All-Solid-State Flexible Supercapacitors with Exceptional Volumetric Energy Density. Journal of Physical Chemistry C, 2019, 123, 17864-17872.	1.5	51
15	Highly Efficient Hydrogen Evolution from Seawater by Biofunctionalized Exfoliated MoS ₂ Quantum Dot Aerogel Electrocatalysts That Is Superior to Pt. ACS Applied Materials & Interfaces, 2019, 11, 14159-14165.	4.0	43
16	Scalable synthesis of two-dimensional nano-sheet materials with chlorophyll extracts: enhancing the hydrogen evolution reaction. Green Chemistry, 2018, 20, 525-533.	4.6	15
17	Newton Output Blocking Force under Low-Voltage Stimulation for Carbon Nanotubeâ€“Electroactive Polymer Composite Artificial Muscles. ACS Applied Materials & Interfaces, 2017, 9, 5550-5555.	4.0	33
18	Synergistic acceleration in the osteogenic and angiogenic differentiation of human mesenchymal stem cells by calcium silicateâ€“graphene composites. Materials Science and Engineering C, 2017, 73, 726-735.	3.8	71

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19	Large-scale fabrication of a flexible, highly conductive composite paper based on molybdenum disulfide@Pt nanoparticle@single-walled carbon nanotubes for efficient hydrogen production. <i>Chemical Communications</i> , 2017, 53, 380-383.	2.2	11
20	Large-Scale Production of Large-Size Atomically Thin Semiconducting Molybdenum Dichalcogenide Sheets in Water and Its Application for Supercapacitor. <i>Scientific Reports</i> , 2016, 6, 26660.	1.6	18
21	Scalable and high-yield production of exfoliated graphene sheets in water and its application to an all-solid-state supercapacitor. <i>Carbon</i> , 2015, 90, 16-24.	5.4	60
22	One pot synthesis of graphene quantum disks derived from single-layered exfoliated graphene sheets and their application in bioimaging. <i>RSC Advances</i> , 2014, 4, 25916.	1.7	7
23	Exfoliation and Performance Properties of Non-Oxidized Graphene in Water. <i>Scientific Reports</i> , 2014, 4, 3928.	1.6	26
24	Preparation of high-quality graphene sheets and their applications in highly conductive papers and a high-performance electromechanical actuator. <i>Journal of Materials Chemistry C</i> , 2013, 1, 5970.	2.7	19
25	Noncovalently functionalized highly conducting carbon nanotube films with enhanced doping stability via an amide linkage. <i>Chemical Communications</i> , 2013, 49, 2753.	2.2	22
26	Tactile@Feedback Stabilized Molecular Junctions for the Measurement of Molecular Conductance. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 2449-2453.	7.2	20
27	Improved performance of carbon nanotube buckypaper and ionic-liquid-in-Nafion actuators for rapid response and high durability in the open air. <i>Sensors and Actuators B: Chemical</i> , 2012, 171-172, 515-521.	4.0	26
28	Highly conductive carbon nanotube buckypapers with improved doping stability via conjugational cross-linking. <i>Nanotechnology</i> , 2011, 22, 485708.	1.3	60
29	Charge-induced asymmetrical displacement of an aligned carbon nanotube buckypaper actuator. <i>Carbon</i> , 2010, 48, 1064-1069.	5.4	61
30	On the Nanoaggregated Emitter of All sp ² -Hybridized Bistriphenylenyl in the Device Layout of Organic Light-Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3097-3102.	1.5	6
31	The effect of molecular conformation on single molecule conductance: measurements of @-conjugated oligoaryls by STM break junction. <i>Chemical Communications</i> , 2007, , 3074-3076.	2.2	23
32	Conductance of Alkanediisothiocyanates: Effect of Headgroup@Electrode Contacts. <i>Journal of Physical Chemistry C</i> , 2007, 111, 11450-11455.	1.5	33
33	A New Generation of Metal String Complexes: Structure, Magnetism, Spectroscopy, Theoretical Analysis, and Single Molecular Conductance of an Unusual Mixed@Valence Linear [Ni ₅] ⁸⁺ Complex. <i>Chemistry - A European Journal</i> , 2007, 13, 8667-8677.	1.7	79
34	Conductance and Stochastic Switching of Ligand-Supported Linear Chains of Metal Atoms. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 5814-5818.	7.2	180
35	Conductance and Stochastic Switching of Ligand-Supported Linear Chains of Metal Atoms. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 6244-6244.	7.2	5
36	Monolayers of Diphenyldiacetylene Derivatives: Tuning Molecular Tilt Angles and Photopolymerization Efficiency via Electrodeposited Ag Interlayer on Au. <i>Journal of Physical Chemistry B</i> , 2005, 109, 19161-19168.	1.2	33

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37	Monolayer Structures of Highly Photoluminescent Furan Oligoaryls: An Approach to Improve Packing Crystallinity of Dithiolated Aromatics. <i>Journal of Physical Chemistry B</i> , 2005, 109, 7915-7922.	1.2	8
38	Effect of Underpotentially Deposited Adlayers on Sulfur Bonding Schemes of Organothiols Self-Assembled on Polycrystalline Gold: sp or sp^3 Hybridization. <i>Journal of Physical Chemistry B</i> , 2004, 108, 17497-17504.	1.2	26
39	Effect of Metal-Metal Interactions on Electron Transfer: an STM Study of One-Dimensional Metal String Complexes. <i>Journal of Physical Chemistry B</i> , 2004, 108, 959-964.	1.2	128