

Ching-Yuan Su

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

96

papers

6,034

citations

29

h-index

77

g-index

104

ext. papers

6,774

ext. citations

7.4

avg, IF

5.52

L-index

#	Paper	IF	Citations
96	Growth of large-area and highly crystalline MoS ₂ thin layers on insulating substrates. <i>Nano Letters</i> , 2012 , 12, 1538-44	11.5	1552
95	High-quality thin graphene films from fast electrochemical exfoliation. <i>ACS Nano</i> , 2011 , 5, 2332-9	16.7	765
94	Electrical and Spectroscopic Characterizations of Ultra-Large Reduced Graphene Oxide Monolayers. <i>Chemistry of Materials</i> , 2009 , 21, 5674-5680	9.6	425
93	Direct formation of wafer scale graphene thin layers on insulating substrates by chemical vapor deposition. <i>Nano Letters</i> , 2011 , 11, 3612-6	11.5	254
92	Highly efficient restoration of graphitic structure in graphene oxide using alcohol vapors. <i>ACS Nano</i> , 2010 , 4, 5285-92	16.7	227
91	Mode locking of ceramic Nd:yttrium aluminum garnet with graphene as a saturable absorber. <i>Applied Physics Letters</i> , 2010 , 96, 031106	3.4	216
90	Opening an electrical band gap of bilayer graphene with molecular doping. <i>ACS Nano</i> , 2011 , 5, 7517-24	16.7	191
89	Ultra-large single-layer graphene obtained from solution chemical reduction and its electrical properties. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 2164-9	3.6	155
88	Graphene synthesis by chemical vapor deposition and transfer by a roll-to-roll process. <i>Carbon</i> , 2010 , 48, 3169-3174	10.4	155
87	Stable mode-locked fiber laser based on CVD fabricated graphene saturable absorber. <i>Optics Express</i> , 2012 , 20, 2460-5	3.3	137
86	Growth of large-sized graphene thin-films by liquid precursor-based chemical vapor deposition under atmospheric pressure. <i>Carbon</i> , 2011 , 49, 3672-3678	10.4	135
85	Fluorinated graphene as high performance dielectric materials and the applications for graphene nanoelectronics. <i>Scientific Reports</i> , 2014 , 4, 5893	4.9	114
84	Towards the continuous production of high crystallinity graphene via electrochemical exfoliation with molecular in situ encapsulation. <i>Nanoscale</i> , 2015 , 7, 15362-73	7.7	94
83	Converting graphene oxide monolayers into boron carbonitride nanosheets by substitutional doping. <i>Small</i> , 2012 , 8, 1384-91	11	87
82	High dispersion of 1-nm SnO ₂ particles between graphene nanosheets constructed using supercritical CO ₂ fluid for sodium-ion battery anodes. <i>Nano Energy</i> , 2016 , 28, 124-134	17.1	83
81	Ultra-large suspended graphene as a highly elastic membrane for capacitive pressure sensors. <i>Nanoscale</i> , 2016 , 8, 3555-64	7.7	76
80	Growth selectivity of hexagonal-boron nitride layers on Ni with various crystal orientations. <i>RSC Advances</i> , 2012 , 2, 111-115	3.7	66

79	Revisiting graphene-polymer nanocomposite for enhancing anticorrosion performance: a new insight into interface chemistry and diffusion model. <i>Nanoscale</i> , 2018 , 10, 12612-12624	7.7	65
78	Enhanced electrocatalytic activity of MoS(x) on TCNQ-treated electrode for hydrogen evolution reaction. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 17679-85	9.5	65
77	Large-Scale Synthesis of Boron Nitride Nanotubes with Iron-Supported Catalysts. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 14732-14738	3.8	58
76	Scale effects of graphene and graphene oxide coatings on pool boiling enhancement mechanisms. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 109, 357-366	4.9	55
75	One-step formation of a single atomic-layer transistor by the selective fluorination of a graphene film. <i>Small</i> , 2014 , 10, 989-97	11	51
74	Flexible Electrochromic Devices Based on Optoelectronically Active Polynorbornene Layer and Ultratransparent Graphene Electrodes. <i>Macromolecules</i> , 2011 , 44, 9550-9555	5.5	44
73	Aqueous rechargeable dual-ion battery based on fluoride ion and sodium ion electrochemistry. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8244-8250	13	41
72	A Self-Aligned High-Mobility Graphene Transistor: Decoupling the Channel with Fluorographene to Reduce Scattering. <i>Advanced Materials</i> , 2015 , 27, 6519-25	24	40
71	Analysis of flavonoids by graphene-based surface-assisted laser desorption/ionization time-of-flight mass spectrometry. <i>Analyst, The</i> , 2012 , 137, 5809-16	5	39
70	Electrical probing of submicroliter liquid using graphene strip transistors built on a nanopipette. <i>Small</i> , 2012 , 8, 43-6	11	31
69	Ultra-low-edge-defect graphene nanoribbons patterned by neutral beam. <i>Carbon</i> , 2013 , 61, 229-235	10.4	31
68	An organic flow desalination battery. <i>Energy Storage Materials</i> , 2019 , 20, 203-207	19.4	30
67	A green, simple and cost-effective approach to synthesize high quality graphene by electrochemical exfoliation via process optimization. <i>RSC Advances</i> , 2015 , 5, 54762-54768	3.7	27
66	The field emission characteristics of carbon nanotubes coated by boron nitride film. <i>Diamond and Related Materials</i> , 2007 , 16, 1393-1397	3.5	27
65	High energy density of all-screen-printable solid-state microsupercapacitors integrated by graphene/CNTs as hierarchical electrodes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12779-12789	13	26
64	Fully room-temperature IGZO thin film transistors adopting stacked gate dielectrics on flexible polycarbonate substrate. <i>Solid-State Electronics</i> , 2013 , 89, 194-197	1.7	26
63	Transfer printing of graphene strip from the graphene grown on copper wires. <i>Nanotechnology</i> , 2011 , 22, 185309	3.4	26
62	Selective Growth of Boron Nitride Nanotubes by the Plasma-Assisted and Iron-Catalytic CVD Methods. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 14681-14688	3.8	25

61	A hybrid nanostructure of platinum-nanoparticles/graphitic-nanofibers as a three-dimensional counter electrode in dye-sensitized solar cells. <i>Chemical Communications</i> , 2011 , 47, 11528-30	5.8	24
60	Graphene as corrosion protection for metal foam flow distributor in proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 22201-22207	6.7	22
59	Efficient heat dissipation of photonic crystal microcavity by monolayer graphene. <i>ACS Nano</i> , 2013 , 7, 10818-24	16.7	22
58	Facile synthesis of core-shell structured Si@graphene balls as a high-performance anode for lithium-ion batteries. <i>Nanoscale</i> , 2020 , 12, 9616-9627	7.7	21
57	Scalable Patterning of MoS ₂ Nanoribbons by Micromolding in Capillaries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20993-1001	9.5	21
56	Manipulation of Heteroatom Substitution on Nitrogen and Phosphorus Co-Doped Graphene as a High Active Catalyst for Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 22202-22211	3.8	21
55	Ultra-low-damage radical treatment for the highly controllable oxidation of large-scale graphene sheets. <i>Carbon</i> , 2014 , 73, 244-251	10.4	21
54	The hierarchical porosity of a three-dimensional graphene electrode for binder-free and high performance supercapacitors. <i>RSC Advances</i> , 2016 , 6, 8384-8394	3.7	20
53	Wide-range work-function tuning of active graphene transparent electrodes via hole doping. <i>RSC Advances</i> , 2016 , 6, 32746-32756	3.7	20
52	Controlled multimodal hierarchically porous electrode self-assembly of electrochemically exfoliated graphene for fully solid-state flexible supercapacitor. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 30381-30392	3.6	19
51	Conversion of pristine and p-doped sulfuric-acid-treated single-walled carbon nanotubes to n-type materials by a facile hydrazine vapor exposure process. <i>Materials Chemistry and Physics</i> , 2012 , 134, 325-332	4.4	18
50	Highly concentrated carbonate electrolyte for Li-ion batteries with lithium metal and graphite anodes. <i>Journal of Power Sources</i> , 2020 , 450, 227657	8.9	18
49	Eco-Efficient Synthesis of Highly Porous CoCO Anodes from Supercritical CO for Li and Na Storage. <i>ChemSusChem</i> , 2017 , 10, 2464-2472	8.3	17
48	Integration of ammonia-plasma-functionalized graphene nanodiscs as charge trapping centers for nonvolatile memory applications. <i>Carbon</i> , 2017 , 113, 318-324	10.4	16
47	Chemically-treated single-walled carbon nanotubes as digitated penetrating electrodes in organic solar cells. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7034		16
46	Scalable and Surfactant-Free Process for Single-Walled Carbon Nanotube Based Transparent Conductive Thin Films via Layer-by-Layer Assembly. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 11588-11594	3.8	14
45	Block-Copolymer-Templated Hierarchical Porous Carbon Nanostructures with Nitrogen-Rich Functional Groups for Molecular Sensing. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 31235-31244	9.5	13
44	Zinc-Air Battery-Based Desalination Device. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 25728-25735	3.5	13

43	An Aqueous Rechargeable Fluoride Ion Battery with Dual Fluoride Electrodes. <i>Journal of the Electrochemical Society</i> , 2019 , 166, A2419-A2424	3.9	13
42	Solution-processed black phosphorus nanoflakes for integrating nonvolatile resistive random access memory and the mechanism unveiled. <i>Nanotechnology</i> , 2019 , 30, 445702	3.4	13
41	Direct synthesis of platelet graphitic-nanofibres as a highly porous counter-electrode in dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 4058-61	3.6	13
40	Planar Heterojunction Solar Cell Employing a Single-Source Precursor Solution-Processed SbS Thin Film as the Light Absorber. <i>ACS Omega</i> , 2019 , 4, 11380-11387	3.9	12
39	Spectroscopic and Electrical Characterizations of Low-Damage Phosphorous-Doped Graphene via Ion Implantation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47289-47298	9.5	12
38	Tuning of Na ⁺ Concentration in an Ionic Liquid Electrolyte to Optimize Solid-Electrolyte Interphase at Microplasma-Synthesized Graphene Anode for Na-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 16682-16689	8.3	11
37	Pool Boiling Heat Transfer Enhanced by Fluorinated Graphene as Atomic Layered Modifiers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 10233-10239	9.5	11
36	Nanocatalyst-Assisted Fine Tailoring of Pore Structure in Holey-Graphene for Enhanced Performance in Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 36560-36570	9.5	10
35	Manipulation of Nitrogen-Heteroatom Configuration for Enhanced Charge-Storage Performance and Reliability of Nanoporous Carbon Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 32797-32805	9.5	10
34	Thermally induced variation in redox chemical bonding structures of single-walled carbon nanotubes exposed to hydrazine vapor. <i>Carbon</i> , 2012 , 50, 1650-1658	10.4	10
33	Highly efficient electrocatalytic hydrogen production via MoS _x /3D-graphene as hybrid electrode. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 22091-22099	6.7	9
32	The composite electrode of Bi@carbon-texture derived from metal-organic frameworks for aqueous chloride ion battery. <i>Ionics</i> , 2020 , 26, 2395-2403	2.7	9
31	Control of Graphene Heteroatoms in a Microball [email[protected]] Composite Anode for High-Energy-Density Lithium-Ion Full Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 18936-18946	8.3	8
30	Facile electrochemical preparation of hierarchical porous structures to enhance manganese oxide charge-storage properties in ionic liquid electrolytes. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4015-4018	1.3	8
29	Cleaning and Fluorination of Black Phosphorus for Enhanced Performance of Transistors with High Stability. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 37375-37383	9.5	8
28	Sb nanoparticle decorated rGO as a new anode material in aqueous chloride ion batteries. <i>Nanoscale</i> , 2020 , 12, 12268-12274	7.7	7
27	MoS on Nitrogen-Doped Graphene for High-Efficiency Hydrogen Evolution Reaction: Unraveling the Mechanisms of Unique Interfacial Bonding for Efficient Charge Transport and Stability. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 34825-34836	9.5	7
26	Flexible ammonia sensor integrated with polyaniline/zinc oxide/graphene composite membrane materials. <i>Japanese Journal of Applied Physics</i> , 2020 , 59, SIID04	1.4	6

25	Large-area suspended graphene as a laser target to produce an energetic ion beam. <i>High Power Laser Science and Engineering</i> , 2017 , 5,	4.3	6
24	Graphene reduction dynamics unveiled. <i>2D Materials</i> , 2015 , 2, 031003	5.9	6
23	Scalable nanoimprint patterning of thin graphitic oxide sheets and in situ reduction. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011 , 29, 011023	1.3	6
22	Designed Catalytic Protocol for Enhancing Hydrogen Evolution Reaction Performance of P, N-Co-Doped Graphene: The Correlation of Manipulating the Dopant Allocations and Heteroatomic Structure. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 25701-25711	3.8	6
21	Ordered nano-structured mesoporous CMK-8 and other carbonaceous positive electrodes for rechargeable aluminum batteries. <i>Chemical Engineering Journal</i> , 2021 , 417, 129131	14.7	6
20	The advent of manganese-substituted sodium vanadium phosphate-based cathodes for sodium-ion batteries and their current progress: a focused review. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 1022-1046	1.2	5
19	Ultrastrong adhesion of fluorinated graphene on a substrate: In situ electrochemical conversion to ionic-covalent bonding at the interface. <i>Carbon</i> , 2020 , 169, 248-257	10.4	5
18	Investigation of Saturable and Reverse Saturable Absorptions for Graphene by Z-Scan Technique. <i>IEEE Photonics Technology Letters</i> , 2015 , 27, 1791-1794	2.2	4
17	The electrochemical behaviors of NaF dual battery based on the hybrid electrodes of nano-bismuth@CNTs. <i>Materials Letters</i> , 2018 , 233, 332-335	3.3	4
16	Effect of substrate topography for graphene-based humidity sensors. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, SDDD04	1.4	3
15	An aqueous rechargeable dual-ion hybrid battery based on Zn//LiTi ₂ (PO ₄) ₃ electrodes. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 2448-2452	5.8	3
14	Family of graphene-assisted resonant surface optical excitations for terahertz devices. <i>Scientific Reports</i> , 2016 , 6, 35467	4.9	3
13	Graphitic carbon film formation under Ni templates by radio-frequency sputtering for transparent electrode applications. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011 , 29, 061202	1.3	3
12	An Exfoliation-Evaporation Strategy To Regulate N Coordination Number of Co Single-Atom Catalysts for High-Performance Lithium-Sulfur Batteries	1-10	3
11	Multi-functionalized fluorinated graphene composite coating for achieving durable electronics: Ultralow corrosion rate and high electrical insulating passivation. <i>Carbon</i> , 2022 , 195, 141-153	10.4	3
10	Electrical probing of multi-ions solution by using graphene-based sensor	2013,	2
9	Electrolyte Engineering: Optimizing High-Rate Double-Layer Capacitances of Micropore- and Mesopore-Rich Activated Carbon. <i>ChemSusChem</i> , 2017 , 10, 3534-3539	8.3	2
8	High sensitivity and flexible fabric strain sensor based on electrochemical graphene. <i>Japanese Journal of Applied Physics</i> , 2021 , 60, SCCD04	1.4	2

7	The effects of chiral dopant and monomer concentration on the electro-optical characteristics of reverse-mode PSDFCT cells 2015 , 38, 101-108		1
6	New insights into interface charge-transfer mechanism of copper-iron layered double hydroxide cathodic electrocatalyst in alkaline electrolysis. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107287	6.8	1
5	Hydrous ruthenium oxide-tantalum pentoxide thin film electrodes prepared by thermal decomposition for electrochemical capacitors. <i>Ceramics International</i> , 2020 , 46, 16636-16643	5.1	1
4	The parametric study on anti-corrosion properties produced by electrochemically exfoliated. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 494, 012015	0.4	1
3	Black Phosphorus Nanosheet/Melamine Cyanurate Assemblies as Functional Active Layers for Artificial Synapse Memristors. <i>ACS Applied Nano Materials</i> , 2021 , 4, 9584-9594	5.6	1
2	Toward large-scale CVD graphene growth by enhancing reaction kinetics via an efficient interdiffusion mediator and mechanism study utilizing CFD simulations. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021 , 128, 400-400	5.3	0
1	Nanoelectronics Based on Fluorinated Graphene 2017 , 393-411		