

Vincent C Tung

List of Publications by Citations

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84
papers

13,047
citations

30
h-index

93
g-index

93
ext. papers

14,597
ext. citations

16
avg, IF

6.64
L-index

#	Paper	IF	Citations
84	Honeycomb carbon: a review of graphene. <i>Chemical Reviews</i> , 2010 , 110, 132-45	68.1	5411
83	High-throughput solution processing of large-scale graphene. <i>Nature Nanotechnology</i> , 2009 , 4, 25-9	28.7	1778
82	Practical chemical sensors from chemically derived graphene. <i>ACS Nano</i> , 2009 , 3, 301-6	16.7	1215
81	Low-temperature solution processing of graphene-carbon nanotube hybrid materials for high-performance transparent conductors. <i>Nano Letters</i> , 2009 , 9, 1949-55	11.5	899
80	A one-step, solvothermal reduction method for producing reduced graphene oxide dispersions in organic solvents. <i>ACS Nano</i> , 2010 , 4, 3845-52	16.7	509
79	17% Efficient Organic Solar Cells Based on Liquid Exfoliated WS as a Replacement for PEDOT:PSS. <i>Advanced Materials</i> , 2019 , 31, e1902965	24	384
78	Graphene oxide as surfactant sheets. <i>Pure and Applied Chemistry</i> , 2010 , 83, 95-110	2.1	326
77	Graphene oxide nanocolloids. <i>Journal of the American Chemical Society</i> , 2010 , 132, 17667-9	16.4	320
76	Surfactant-free water-processable photoconductive all-carbon composite. <i>Journal of the American Chemical Society</i> , 2011 , 133, 4940-7	16.4	191
75	Soft Transfer Printing of Chemically Converted Graphene. <i>Advanced Materials</i> , 2009 , 21, 2098-2102	24	166
74	Sticky interconnect for solution-processed tandem solar cells. <i>Journal of the American Chemical Society</i> , 2011 , 133, 9262-5	16.4	162
73	Ultralow contact resistance between semimetal and monolayer semiconductors. <i>Nature</i> , 2021 , 593, 211-214	30.7	154
72	Printable magnesium-ion quasi-solid-state asymmetric supercapacitors for flexible solar-charging integrated units. <i>Nature Communications</i> , 2019 , 10, 4913	17.4	90
71	Water Processable Graphene Oxide:Single Walled Carbon Nanotube Composite as Anode Modifier for Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2011 , 1, 1052-1057	21.8	83
70	Towards solution processed all-carbon solar cells: a perspective. <i>Energy and Environmental Science</i> , 2012 , 5, 7810	35.4	81
69	Structurally Deformed MoS for Electrochemically Stable, Thermally Resistant, and Highly Efficient Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2017 , 29, 1703863	24	79
68	Mixed-dimensional MXene-hydrogel heterostructures for electronic skin sensors with ultrabroad working range. <i>Science Advances</i> , 2020 , 6,	14.3	74

67	Anisotropy in Organic Single-Crystal Photovoltaic Characteristics. <i>Advanced Materials</i> , 2008 , 20, 435-438	24	70
66	Gate-Tunable and Multidirection-Switchable Memristive Phenomena in a Van Der Waals Ferroelectric. <i>Advanced Materials</i> , 2019 , 31, e1901300	24	67
65	The effects of thionyl chloride on the properties of graphene and graphene-carbon nanotube composites. <i>Journal of Materials Chemistry</i> , 2011 , 21, 3391		58
64	3D Crumpled Ultrathin 1T MoS for Inkjet Printing of Mg-Ion Asymmetric Micro-supercapacitors. <i>ACS Nano</i> , 2020 , 14, 7308-7318	16.7	55
63	Hybrid Perovskite Thin Films as Highly Efficient Luminescent Solar Concentrators. <i>Advanced Optical Materials</i> , 2016 , 4, 2126-2132	8.1	50
62	Versatile solution for growing thin films of conducting polymers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 19673-8	11.5	49
61	Regulating Oxygen Substituents with Optimized Redox Activity in Chemically Reduced Graphene Oxide for Aqueous Zn-Ion Hybrid Capacitor. <i>Advanced Functional Materials</i> , 2021 , 31, 2007843	15.6	49
60	Graphene Oxide:Single-Walled Carbon Nanotube-Based Interfacial Layer for All-Solution-Processed Multijunction Solar Cells in Both Regular and Inverted Geometries. <i>Advanced Energy Materials</i> , 2012 , 2, 299-303	21.8	47
59	Liquid phase exfoliation of MoS ₂ and WS ₂ in aqueous ammonia and their application in highly efficient organic solar cells. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5259-5264	7.1	46
58	Carbon Nanotube Chirality Determines Efficiency of Electron Transfer to Fullerene in All-Carbon Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 2914-2918	6.4	43
57	Temperature dependent Raman spectroscopy of chemically derived graphene. <i>Applied Physics Letters</i> , 2008 , 93, 193119	3.4	42
56	Ledge-directed epitaxy of continuously self-aligned single-crystalline nanoribbons of transition metal dichalcogenides. <i>Nature Materials</i> , 2020 , 19, 1300-1306	27	41
55	Graphene oxide based conductive glue as a binder for ultracapacitor electrodes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12993		36
54	Metal-Guided Selective Growth of 2D Materials: Demonstration of a Bottom-Up CMOS Inverter. <i>Advanced Materials</i> , 2019 , 31, e1900861	24	28
53	Nature inspiring processing route toward high throughput production of perovskite photovoltaics. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6989-6997	13	27
52	Lithium-Ion Desolvation Induced by Nitrate Additives Reveals New Insights into High Performance Lithium Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2101593	15.6	27
51	The development of integrated circuits based on two-dimensional materials. <i>Nature Electronics</i> , 2021 , 4, 775-785	28.4	26
50	Optoelectronic Ferroelectric Domain-Wall Memories Made from a Single Van Der Waals Ferroelectric. <i>Advanced Functional Materials</i> , 2020 , 30, 2004206	15.6	26

49	Self-healing flexible/stretchable energy storage devices. <i>Materials Today</i> , 2021 , 44, 78-104	21.8	23
48	Demonstration of the key substrate-dependent charge transfer mechanisms between monolayer MoS ₂ and molecular dopants. <i>Communications Physics</i> , 2019 , 2,	5.4	21
47	Stabilization of the Cubic Crystalline Phase in Organometal Halide Perovskite Quantum Dots via Surface Energy Manipulation. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5378-5384	6.4	20
46	Bulky rigid substitutions: A route to high electron mobility and high solid-state luminescence efficiency of perylene diimide. <i>Organic Electronics</i> , 2014 , 15, 281-285	3.5	18
45	Stenciling graphene, carbon nanotubes, and fullerenes using elastomeric lift-off membranes. <i>Advanced Materials</i> , 2010 , 22, 897-901	24	18
44	Electrohydrodynamically Assisted Deposition of Efficient Perovskite Photovoltaics. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500762	4.6	18
43	Unveiling defect-mediated carrier dynamics in monolayer semiconductors by spatiotemporal microwave imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 13908-13913	11.5	16
42	High- κ perovskite membranes as insulators for two-dimensional transistors.. <i>Nature</i> , 2022 , 605, 262-267	50.4	16
41	Electropolymerization growth of an ultrathin, compact, conductive and microporous (UCCM) polycarbazole membrane for high energy LiB batteries. <i>Nano Energy</i> , 2020 , 73, 104769	17.1	15
40	Design and Mechanistic Study of Highly Durable Carbon-Coated Cobalt Diphosphide Core-Shell Nanostructure Electrocatalysts for the Efficient and Stable Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20752-20761	9.5	14
39	Steam-Assisted Chemical Vapor Deposition of Zeolitic Imidazolate Framework 2020 , 2, 485-491		14
38	Low temperature excitonic spectroscopy and dynamics as a probe of quality in hybrid perovskite thin films. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 28428-28433	3.6	14
37	Structure-stability relationships for graphene-wrapped fullerene-coated carbon nanotubes. <i>Carbon</i> , 2013 , 61, 458-466	10.4	12
36	Protection of Lithium Anode by a Highly Porous PVDF Membrane for High-Performance LiB Battery. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2510-2515	6.1	11
35	Growth of 2H stacked WSe ₂ bilayers on sapphire. <i>Nanoscale Horizons</i> , 2019 , 4, 1434-1442	10.8	11
34	Asymmetric cathode membrane with tunable positive charge networks for highly stable LiB batteries. <i>Energy Storage Materials</i> , 2020 , 25, 33-40	19.4	7
33	Aberration-corrected STEM imaging of 2D materials: Artifacts and practical applications of threefold astigmatism. <i>Science Advances</i> , 2020 , 6,	14.3	7
32	Graphene-based Oxygen Reduction Electrodes for Low Temperature Solid Oxide Fuel Cells. <i>Fuel Cells</i> , 2017 , 17, 344-352	2.9	6

31	Electrochemical Conversion of CO ₂ to 2-Bromoethanol in a Membraneless Cell. <i>ACS Energy Letters</i> , 2019 , 4, 600-605	20.1	6
30	Conducting Polyaniline for Antifouling Ultrafiltration Membranes: Solutions and Challenges. <i>Nano Letters</i> , 2021 , 21, 3699-3707	11.5	6
29	Unusual Activity of Rationally Designed Cobalt Phosphide/Oxide Heterostructure Composite for Hydrogen Production in Alkaline Medium.. <i>ACS Nano</i> , 2022 ,	16.7	6
28	Novel Hybridization Approaches for Graphene-Based Nanocomposites. <i>Science of Advanced Materials</i> , 2015 , 7, 1962-1978	2.3	5
27	Plasmon-Enhanced Solar-Driven Hydrogen Evolution Using Titanium Nitride Metasurface Broadband Absorbers. <i>ACS Photonics</i> ,	6.3	5
26	Epitaxial Growth and Determination of Band Alignment of Bi ₂ Te ₃ /WSe ₂ Vertical van der Waals Heterojunctions 2020 , 2, 1351-1359		5
25	Electrohydrodynamic-assisted Assembly of Hierarchically Structured, 3D Crumpled Nanostructures for Efficient Solar Conversions. <i>Scientific Reports</i> , 2016 , 6, 38701	4.9	5
24	Two-Dimensional CsAgBiBr/WS Heterostructure-Based Photodetector with Boosted Detectivity via Interfacial Engineering.. <i>ACS Nano</i> , 2022 ,	16.7	5
23	Capillarity-Assisted Electrostatic Assembly of Hierarchically Functional 3D Graphene: TiO ₂ Hybrid Photoanodes. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500292	4.6	4
22	Additive manufacturing assisted van der Waals integration of 3D/3D hierarchically functional nanostructures. <i>Communications Materials</i> , 2020 , 1,	6	4
21	Mo ³⁺ hydride as the common origin of H ₂ evolution and selective NADH regeneration in molybdenum sulfide electrocatalysts. <i>Nature Catalysis</i> , 2022 , 5, 397-404	36.5	4
20	High-throughput label-free microcontact printing graphene-based biosensor for valley fever. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 170, 219-223	6	3
19	Strain-Directed Layer-By-Layer Epitaxy Toward van der Waals Homo- and Heterostructures 2021 , 3, 442-453		3
18	Wafer-scale single-orientation 2D layers by atomic edge-guided epitaxial growth.. <i>Chemical Society Reviews</i> , 2022 ,	58.5	2
17	Temperature-Dependent Electronic Ground-State Charge Transfer in van der Waals Heterostructures. <i>Advanced Materials</i> , 2021 , 33, e2008677	24	2
16	The Schottky-Mott Rule Expanded for Two-Dimensional Semiconductors: Influence of Substrate Dielectric Screening. <i>ACS Nano</i> , 2021 , 15, 14794-14803	16.7	2
15	Direct Growth of Magnetic Non-van der Waals Cr ₂ X ₃ (X = S, Se, and Te) on SiO ₂ /Si Substrates through the Promotion of KOH. <i>Chemistry of Materials</i> , 2022 , 34, 2342-2351	9.6	2
14	Flexible all-carbon photovoltaics with improved thermal stability. <i>Journal of Solid State Chemistry</i> , 2015 , 224, 94-101	3.3	1

13	Bioinspired Dimensional Transition: Structurally Deformed MoS ₂ for Electrochemically Stable, Thermally Resistant, and Highly Efficient Hydrogen Evolution Reaction (Adv. Mater. 44/2017). <i>Advanced Materials</i> , 2017 , 29,	24	1
12	Photoanodes: Capillarity-Assisted Electrostatic Assembly of Hierarchically Functional 3D Graphene: TiO ₂ Hybrid Photoanodes (Adv. Mater. Interfaces 17/2015). <i>Advanced Materials Interfaces</i> , 2015 , 2,	4.6	1
11	Water Processable Graphene Oxide:Single Walled Carbon Nanotube Composite as Anode Modifier for Polymer Solar Cells (Adv. Energy Mater. 6/2011). <i>Advanced Energy Materials</i> , 2011 , 1, 1051-1051	21.8	1
10	Type-I Energy Level Alignment at the PTCDA-Monolayer MoS Interface Promotes Resonance Energy Transfer and Luminescence Enhancement. <i>Advanced Science</i> , 2021 , 8, 2100215	13.6	1
9	Two-dimensional plasmonic polarons in n-doped monolayer MoS ₂ . <i>Physical Review B</i> , 2021 , 103,	3.3	1
8	Current Progress and Scalable Approach toward the Synthesis of 2D Metal-Organic Frameworks. <i>Advanced Materials Interfaces</i> ,2102560	4.6	1
7	2D Materials: Metal-Guided Selective Growth of 2D Materials: Demonstration of a Bottom-Up CMOS Inverter (Adv. Mater. 18/2019). <i>Advanced Materials</i> , 2019 , 31, 1970132	24	0
6	Tuning Excitonic Properties of Pure and Mixed Halide Perovskite Thin Films via Interfacial Engineering. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800209	4.6	0
5	Performance Limits and Potential of Multilayer Graphene-Wungsten Diselenide Heterostructures. <i>Advanced Electronic Materials</i> ,2100355	6.4	0
4	2D Materials Characterization: Should We Rely on HR STEM Imaging?. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1638-1639	0.5	
3	Graphene Oxide:Single-Walled Carbon Nanotube-Based Interfacial Layer for All-Solution-Processed Multijunction Solar Cells in Both Regular and Inverted Geometries (Adv. Energy Mater. 3/2012). <i>Advanced Energy Materials</i> , 2012 , 2, 298-298	21.8	
2	All-Carbon Composite for Photovoltaics. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1344, 1		
1	Van der Waals Heterostructures: Temperature-Dependent Electronic Ground-State Charge Transfer in van der Waals Heterostructures (Adv. Mater. 29/2021). <i>Advanced Materials</i> , 2021 , 33, 2170229	24	