

Ya-Ping Hsieh

List of Publications by Year in Descending Order

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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.

76
papers

1,998
citations

21
h-index

43
g-index

85
ext. papers

2,251
ext. citations

7.4
avg, IF

4.51
L-index

#	Paper	IF	Citations
76	Efficient light-confinement in heterostructured transition metal dichalcogenide-based nanoscrolls for high-performance photonic devices. <i>Journal of Materials Research</i> , 2022 , 37, 660-669	2.5	
75	Graphene as a diffusion barrier at the interface of Liquid State low-melting Sn ₈₈ Bi alloy and copper foil. <i>Applied Surface Science</i> , 2022 , 578, 152108	6.7	4
74	Chemical vapor deposition merges MoS grains into high-quality and centimeter-scale films on Si/SiO ₂ . <i>RSC Advances</i> , 2022 , 12, 5990-5996	3.7	1
73	Direct growth of single-metal-atom chains 2022 , 1, 245-253		1
72	Correlation of grain orientations and the thickness of gradient MoS films.. <i>RSC Advances</i> , 2021 , 11, 34269-34274	3.7	1
71	Ferroelectric 2D ice under graphene confinement. <i>Nature Communications</i> , 2021 , 12, 6291	17.4	3
70	Ultra-thin 2D transition metal monochalcogenide crystals by planarized reactions. <i>Npj 2D Materials and Applications</i> , 2021 , 5,	8.8	1
69	Edge-Trimmed Nanogaps in 2D Materials for Robust, Scalable, and Tunable Lateral Tunnel Junctions. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
68	Reaction-limited graphene CVD surpasses silicon production rate. <i>2D Materials</i> , 2021 , 8, 035016	5.9	0
67	Edge-Rich Interconnected Graphene Mesh Electrode with High Electrochemical Reactivity Applicable for Glucose Detection. <i>Nanomaterials</i> , 2021 , 11,	5.4	2
66	Two-Dimensional Mechano-thermoelectric Heterojunctions for Self-Powered Strain Sensors. <i>Nano Letters</i> , 2021 , 21, 6990-6997	11.5	2
65	Neutral scatterers dominate carrier transport in CVD graphene with ionic impurities. <i>Carbon</i> , 2020 , 165, 163-168	10.4	3
64	Electromagnetic Interference Shielding by Transparent Graphene/Nickel Mesh Films. <i>ACS Applied Nano Materials</i> , 2020 , 3, 7474-7481	5.6	14
63	Laser-Assisted 2D Material-Based Highly Responsive Flexible Photosensor 2020 ,		1
62	Multilevel Optical Labeling by Spectral Luminescence Control in Nanodiamond Color Centers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 49006-49011	9.5	1
61	QD/2D Hybrid Nanoscrolls: A New Class of Materials for High-Performance Polarized Photodetection and Ultralow Threshold Laser Action. <i>Small</i> , 2020 , 16, e2003944	11	3
60	2D Material Enabled Offset-Patterning with Atomic Resolution. <i>Advanced Functional Materials</i> , 2020 , 30, 2004370	15.6	2

59	Robust formation of amorphous SbS on functionalized graphene for high-performance optoelectronic devices in the cyan-gap. <i>Scientific Reports</i> , 2020 , 10, 14873	4.9	1
58	Characterizing carrier transport in nanostructured materials by force-resolved microprobing. <i>Scientific Reports</i> , 2020 , 10, 14177	4.9	2
57	Modelling electrical conduction in nanostructure assemblies through complex networks. <i>Nature Materials</i> , 2020 , 19, 745-751	27	14
56	Characterizing percolative materials by straining. <i>Nanoscale</i> , 2019 , 11, 1074-1079	7.7	8
55	Solid-diffusion-facilitated cleaning of copper foil improves the quality of CVD graphene. <i>Scientific Reports</i> , 2019 , 9, 257	4.9	3
54	Heavy Mediator at Quantum Dot/Graphene Heterojunction for Efficient Charge Carrier Transfer: Alternative Approach for High-Performance Optoelectronic Devices. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 26518-26527	9.5	6
53	Graphene Synthesis and Quality Optimization 2019 , 41-62		
52	Enhancing Thermoelectric Properties of 2D Bi ₂ Se ₃ by 1D Texturing with Graphene. <i>ACS Applied Energy Materials</i> , 2019 , 2, 8411-8415	6.1	3
51	Ink-jet patterning of graphene by cap assisted barrier-guided CVD.. <i>RSC Advances</i> , 2019 , 9, 29105-29108	3.7	0
50	Lateral Two-Dimensional Material Heterojunction Photodetectors with Ultrahigh Speed and Detectivity. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 6384-6388	9.5	10
49	Hybrid Optical/Electric Memristor for Light-Based Logic and Communication. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4649-4653	9.5	15
48	Impact of growth rate on graphene lattice-defect formation within a single crystalline domain. <i>Scientific Reports</i> , 2018 , 8, 4046	4.9	15
47	Large, non-saturating magnetoresistance in single layer chemical vapor deposition graphene with an h-BN capping layer. <i>Carbon</i> , 2018 , 136, 211-216	10.4	6
46	Electrostatic Control over the Electrochemical Reactivity of Graphene. <i>Chemistry of Materials</i> , 2018 , 30, 7178-7182	9.6	8
45	Patterned liquid metal contacts for high density, stick-and-peel 2D material device arrays. <i>Nanoscale</i> , 2018 , 10, 14510-14515	7.7	2
44	Recrystallization of copper at a solid interface for improved CVD graphene growth. <i>RSC Advances</i> , 2017 , 7, 3736-3740	3.7	11
43	Layer Control of Tubular Graphene for Corrosion Inhibition of Nickel Wires. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22911-22917	9.5	21
42	How does graphene grow on complex 3D morphologies?. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 23357-23361	3.6	5

41	Optical Characterization of Graphene and Its Derivatives: An Experimentalist's Perspective 2017 , 27-59		2
40	Increasing the doping efficiency by surface energy control for ultra-transparent graphene conductors. <i>Scientific Reports</i> , 2017 , 7, 9052	4.9	7
39	Nanostructure analysis of InGaN/GaN quantum wells based on semi-polar-faced GaN nanorods. <i>Optical Materials Express</i> , 2017 , 7, 320	2.6	6
38	Ultrahigh mobility in polyolefin-supported graphene. <i>Nanoscale</i> , 2016 , 8, 1327-31	7.7	7
37	High-Throughput Graphene Synthesis in Gapless Stacks. <i>Chemistry of Materials</i> , 2016 , 28, 40-43	9.6	30
36	Scalable production of graphene with tunable and stable doping by electrochemical intercalation and exfoliation. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 339-43	3.6	12
35	Self-powered and broadband photodetectors based on graphene/ZnO/silicon triple junctions. <i>Applied Physics Letters</i> , 2016 , 109, 053501	3.4	27
34	Reducing the graphene grain density in three steps. <i>Nanotechnology</i> , 2016 , 27, 105602	3.4	12
33	Controlling the properties of graphene produced by electrochemical exfoliation. <i>Nanotechnology</i> , 2015 , 26, 335607	3.4	34
32	Large-area few-layered graphene film determination by multispectral imaging microscopy. <i>Nanoscale</i> , 2015 , 7, 9033-9	7.7	10
31	Ad-layers enhance graphene's performance. <i>RSC Advances</i> , 2015 , 5, 93684-93688	3.7	5
30	Direct growth of ZnO nanowire arrays on UV-irradiated graphene. <i>CrystEngComm</i> , 2015 , 17, 9097-9101	3.3	7
29	Enhancing CVD graphene's inter-grain connectivity by a graphite promoter. <i>Nanoscale</i> , 2015 , 7, 19403-7	7.7	7
28	Ultrathin graphene-based solar cells. <i>RSC Advances</i> , 2015 , 5, 99627-99631	3.7	4
27	Dopant morphology as the factor limiting graphene conductivity. <i>Scientific Reports</i> , 2015 , 5, 17393	4.9	16
26	Promoter-assisted chemical vapor deposition of graphene. <i>Carbon</i> , 2014 , 67, 417-423	10.4	33
25	Ultra-high sensitivity graphene photosensors. <i>Applied Physics Letters</i> , 2014 , 104, 041110	3.4	13
24	Scalable, flexible and high resolution patterning of CVD graphene. <i>Nanoscale</i> , 2014 , 6, 289-92	7.7	28

23	Complete corrosion inhibition through graphene defect passivation. <i>ACS Nano</i> , 2014 , 8, 443-8	16.7	185
22	Rewritable, Moldable, and Flexible Sticker-Type Organic Memory on Arbitrary Substrates. <i>Advanced Functional Materials</i> , 2014 , 24, 1430-1438	15.6	58
21	Stretchable organic memory: toward learnable and digitized stretchable electronic applications. <i>NPG Asia Materials</i> , 2014 , 6, e87-e87	10.3	69
20	Size effects on phonon localization and Raman enhancement in silicon nanotips. <i>Journal of Raman Spectroscopy</i> , 2013 , 44, 81-85	2.3	5
19	Flexible transparent electrodes made of electrochemically exfoliated graphene sheets from low-cost graphite pieces. <i>Displays</i> , 2013 , 34, 315-319	3.4	48
18	Effect of Catalyst Morphology on the Quality of CVD Grown Graphene. <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-6	3.2	13
17	Transferable and flexible label-like macromolecular memory on arbitrary substrates with high performance and a facile methodology. <i>Advanced Materials</i> , 2013 , 25, 2733-9	24	47
16	A graphene-based surface plasmon sensor. <i>Nano Research</i> , 2012 , 5, 695-702	10	29
15	Characterizations of photoconductivity of graphene oxide thin films. <i>AIP Advances</i> , 2012 , 2, 022104	1.5	9
14	A facile tool for the characterization of two-dimensional materials grown by chemical vapor deposition. <i>Nano Research</i> , 2012 , 5, 504-511	10	24
13	Crystallinity Improvement of ZnO Thin Film on Different Buffer Layers Grown by MBE. <i>Journal of Nanomaterials</i> , 2012 , 2012, 1-7	3.2	25
12	MOS photodetectors based on Au-nanorod doped graphene electrodes. <i>Nanotechnology</i> , 2011 , 22, 305201	3.4	2
11	Chiral angle dependence of resonance window widths in $(2n+m)$ families of single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2010 , 96, 103118	3.4	8
10	Defects in individual semiconducting single wall carbon nanotubes: Raman spectroscopic and in situ Raman spectroelectrochemical study. <i>Nano Letters</i> , 2010 , 10, 4619-26	11.5	63
9	Direct deposition of single-walled carbon nanotube thin films via electrostatic spray assisted chemical vapor deposition. <i>Nanotechnology</i> , 2009 , 20, 065601	3.4	8
8	Controlled formation of sharp zigzag and armchair edges in graphitic nanoribbons. <i>Science</i> , 2009 , 323, 1701-5	33.3	592
7	Electroluminescence from ZnO/Si-nanotips light-emitting diodes. <i>Nano Letters</i> , 2009 , 9, 1839-43	11.5	79
6	Raman spectroscopy study of isolated double-walled carbon nanotubes with different metallic and semiconducting configurations. <i>Nano Letters</i> , 2008 , 8, 3879-86	11.5	71

- 5 Electroluminescence enhancement of SiGe/Si multiple quantum wells through nanowall structures. *Nanotechnology*, **2008**, 19, 365705 3.4 2
- 4 Influence of the incorporation of metals on the optical properties of MCM-41. *Journal of Luminescence*, **2008**, 128, 553-558 3.8 7
- 3 Strong luminescence from strain relaxed InGaN/GaN nanotips for highly efficient light emitters. *Optics Express*, **2007**, 15, 9357-65 3.3 39
- 2 Mechanism of giant enhancement of light emission from Au/CdSe nanocomposites. *Nanotechnology*, **2007**, 18, 415707 3.4 58
- 1 AuAg alloy nanoparticle as catalyst for CO oxidation: Effect of Si/Al ratio of mesoporous support. *Journal of Catalysis*, **2006**, 237, 197-206 7.3 119