

David Estrada

List of Publications by Citations

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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.

44
papers

2,262
citations

21
h-index

47
g-index

51
ext. papers

2,500
ext. citations

9.2
avg, IF

4.72
L-index

#	Paper	IF	Citations
44	Low-power switching of phase-change materials with carbon nanotube electrodes. <i>Science</i> , 2011 , 332, 568-70	33.3	408
43	Stretchable, transparent graphene interconnects for arrays of microscale inorganic light emitting diodes on rubber substrates. <i>Nano Letters</i> , 2011 , 11, 3881-6	11.5	281
42	Stacked graphene-Al ₂ O ₃ nanopore sensors for sensitive detection of DNA and DNA-protein complexes. <i>ACS Nano</i> , 2012 , 6, 441-50	16.7	173
41	Polycrystalline graphene ribbons as chemiresistors. <i>Advanced Materials</i> , 2012 , 24, 53-7, 52	24	150
40	Imaging, simulation, and electrostatic control of power dissipation in graphene devices. <i>Nano Letters</i> , 2010 , 10, 4787-93	11.5	141
39	Atomic-scale evidence for potential barriers and strong carrier scattering at graphene grain boundaries: a scanning tunneling microscopy study. <i>ACS Nano</i> , 2013 , 7, 75-86	16.7	118
38	High-performance and flexible thermoelectric films by screen printing solution-processed nanoplate crystals. <i>Scientific Reports</i> , 2016 , 6, 33135	4.9	104
37	Electrochemistry at the edge of a single graphene layer in a nanopore. <i>ACS Nano</i> , 2013 , 7, 834-43	16.7	95
36	Reduction of hysteresis for carbon nanotube mobility measurements using pulsed characterization. <i>Nanotechnology</i> , 2010 , 21, 85702	3.4	88
35	Bimodal Phonon Scattering in Graphene Grain Boundaries. <i>Nano Letters</i> , 2015 , 15, 4532-40	11.5	71
34	Imaging dissipation and hot spots in carbon nanotube network transistors. <i>Applied Physics Letters</i> , 2011 , 98, 073102	3.4	54
33	Effect of carbon nanotube network morphology on thin film transistor performance. <i>Nano Research</i> , 2012 , 5, 307-319	10	53
32	Graphene Foam as a three-dimensional Platform for Myotube Growth. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 1234-1241	5.5	52
31	Flexible Thermoelectric Devices of Ultrahigh Power Factor by Scalable Printing and Interface Engineering. <i>Advanced Functional Materials</i> , 2020 , 30, 1905796	15.6	50
30	Chemical sensors based on randomly stacked graphene flakes. <i>Applied Physics Letters</i> , 2012 , 100, 033113	3.4	45
29	Direct observation of resistive heating at graphene wrinkles and grain boundaries. <i>Applied Physics Letters</i> , 2014 , 105, 143109	3.4	43
28	Nanosoldering carbon nanotube junctions by local chemical vapor deposition for improved device performance. <i>Nano Letters</i> , 2013 , 13, 5844-50	11.5	35

27	Thermal conductivity of chirality-sorted carbon nanotube networks. <i>Applied Physics Letters</i> , 2016 , 108, 103101	3.4	34
26	High-field transport and thermal reliability of sorted carbon nanotube network devices. <i>ACS Nano</i> , 2013 , 7, 482-90	16.7	31
25	Detection of methylation on dsDNA using nanopores in a MoS membrane. <i>Nanoscale</i> , 2017 , 9, 14836-14845	16.7	25
24	Thermal transport in layer-by-layer assembled polycrystalline graphene films. <i>Npj 2D Materials and Applications</i> , 2019 , 3,	8.8	21
23	A Review of Inkjet Printed Graphene and Carbon Nanotubes Based Gas Sensors. <i>Sensors</i> , 2020 , 20,	3.8	21
22	The sp ² -sp ³ carbon hybridization content of nanocrystalline graphite from pyrolyzed vegetable oil, comparison of electrochemistry and physical properties with other carbon forms and allotropes. <i>Carbon</i> , 2019 , 144, 831-840	10.4	21
21	High-Performance Flexible Bismuth Telluride Thin Film from Solution Processed Colloidal Nanoplates. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000600	6.8	17
20	Mechanical Properties of Graphene Foam and Graphene Foam - Tissue Composites. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800166	3.5	17
19	Solution-mediated selective nanosoldering of carbon nanotube junctions for improved device performance. <i>ACS Nano</i> , 2015 , 9, 4806-13	16.7	15
18	Electrical Transport and Power Dissipation in Aerosol-Jet-Printed Graphene Interconnects. <i>Scientific Reports</i> , 2018 , 8, 10842	4.9	15
17	High field breakdown characteristics of carbon nanotube thin film transistors. <i>Nanotechnology</i> , 2013 , 24, 405204	3.4	13
16	Impact of thermal boundary conductances on power dissipation and electrical breakdown of carbon nanotube network transistors. <i>Journal of Applied Physics</i> , 2012 , 112, 124506	2.5	11
15	Modeling and Analysis of Intercalant Effects on Circular DNA Conformation. <i>ACS Nano</i> , 2016 , 10, 8910-7	16.7	10
14	Tip-Based Nanofabrication of Arbitrary Shapes of Graphene Nanoribbons for Device Applications. <i>RSC Advances</i> , 2015 , 5, 37006-37012	3.7	9
13	Prechondrogenic ATDC5 Cell Attachment and Differentiation on Graphene Foam; Modulation by Surface Functionalization with Fibronectin. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 41906-41924	9.5	9
12	Avalanche, joule breakdown and hysteresis in carbon nanotube transistors 2009 ,		7
11	A parametric study for in-pile use of the thermal conductivity needle probe using a transient, multilayered analytical model. <i>International Journal of Thermal Sciences</i> , 2019 , 145, 106028	4.1	5
10	Aerosol jet printed capacitive strain gauge for soft structural materials. <i>Npj Flexible Electronics</i> , 2020 , 4,	10.7	4

9	Synergic Antitumor Effect of Photodynamic Therapy and Chemotherapy Mediated by Nano Drug Delivery Systems.. <i>Pharmaceutics</i> , 2022 , 14,	6.4	4
8	Fully inkjet-printed multilayered graphene-based flexible electrodes for repeatable electrochemical response.. <i>RSC Advances</i> , 2020 , 10, 38205-38219	3.7	4
7	Measurement of Signal-to-Noise Ratio In Graphene-based Passive Microelectrode Arrays. <i>Electroanalysis</i> , 2019 , 31, 991-1001	3	2
6	Graphene Sensors: Polycrystalline Graphene Ribbons as Chemiresistors (Adv. Mater. 1/2012). <i>Advanced Materials</i> , 2012 , 24, 52-52	24	1
5	Atomic-scale study of scattering and electronic properties of CVD graphene grain boundaries 2012 ,		1
4	Mechanochemical conversion kinetics of red to black phosphorus and scaling parameters for high volume synthesis. <i>Npj 2D Materials and Applications</i> , 2020 , 4,	8.8	1
3	Utilizing a Single Silica Nanospring as an Insulating Support to Characterize the Electrical Transport and Morphology of Nanocrystalline Graphite. <i>Materials</i> , 2019 , 12,	3.5	1
2	Open-source automated chemical vapor deposition system for the production of two- dimensional nanomaterials. <i>PLoS ONE</i> , 2019 , 14, e0210817	3.7	1
1	Production and Characterization of Graphene and Other 2-dimensional Nanomaterials: An AP High School Inquiry Lab (Curriculum Exchange) 2015 , 26.1257.1		