

David Estrada

List of Publications by Year in descending order

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50
papers

2,771
citations

257357

24
h-index

254106

43
g-index

51
all docs

51
docs citations

51
times ranked

5056
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-Power Switching of Phase-Change Materials with Carbon Nanotube Electrodes. <i>Science</i> , 2011, 332, 568-570.	6.0	474
2	Stretchable, Transparent Graphene Interconnects for Arrays of Microscale Inorganic Light Emitting Diodes on Rubber Substrates. <i>Nano Letters</i> , 2011, 11, 3881-3886.	4.5	307
3	Stacked Graphene-Al ₂ O ₃ Nanopore Sensors for Sensitive Detection of DNA and DNA-Protein Complexes. <i>ACS Nano</i> , 2012, 6, 441-450.	7.3	189
4	Polycrystalline Graphene Ribbons as Chemiresistors. <i>Advanced Materials</i> , 2012, 24, 53-57.	11.1	177
5	Imaging, Simulation, and Electrostatic Control of Power Dissipation in Graphene Devices. <i>Nano Letters</i> , 2010, 10, 4787-4793.	4.5	163
6	High-performance and flexible thermoelectric films by screen printing solution-processed nanoplate crystals. <i>Scientific Reports</i> , 2016, 6, 33135.	1.6	141
7	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.	7.3	132
8	Electrochemistry at the Edge of a Single Graphene Layer in a Nanopore. <i>ACS Nano</i> , 2013, 7, 834-843.	7.3	105
9	Reduction of hysteresis for carbon nanotube mobility measurements using pulsed characterization. <i>Nanotechnology</i> , 2010, 21, 085702.	1.3	100
10	Flexible Thermoelectric Devices of Ultrahigh Power Factor by Scalable Printing and Interface Engineering. <i>Advanced Functional Materials</i> , 2020, 30, 1905796.	7.8	93
11	Bimodal Phonon Scattering in Graphene Grain Boundaries. <i>Nano Letters</i> , 2015, 15, 4532-4540.	4.5	81
12	Imaging dissipation and hot spots in carbon nanotube network transistors. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	66
13	Graphene Foam as a Three-Dimensional Platform for Myotube Growth. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 1234-1241.	2.6	64
14	Effect of carbon nanotube network morphology on thin film transistor performance. <i>Nano Research</i> , 2012, 5, 307-319.	5.8	59
15	A Review of Inkjet Printed Graphene and Carbon Nanotubes Based Gas Sensors. <i>Sensors</i> , 2020, 20, 5642.	2.1	53
16	Chemical sensors based on randomly stacked graphene flakes. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	49
17	Direct observation of resistive heating at graphene wrinkles and grain boundaries. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	47
18	Thermal conductivity of chirality-sorted carbon nanotube networks. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	38

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19	Nanosoldering Carbon Nanotube Junctions by Local Chemical Vapor Deposition for Improved Device Performance. <i>Nano Letters</i> , 2013, 13, 5844-5850.	4.5	36
20	High-Field Transport and Thermal Reliability of Sorted Carbon Nanotube Network Devices. <i>ACS Nano</i> , 2013, 7, 482-490.	7.3	35
21	Detection of methylation on dsDNA using nanopores in a MoS ₂ membrane. <i>Nanoscale</i> , 2017, 9, 14836-14845.	2.8	34
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.	5.4	30
23	Thermal transport in layer-by-layer assembled polycrystalline graphene films. <i>Npj 2D Materials and Applications</i> , 2019, 3, .	3.9	28
24	High-Performance Flexible Bismuth Telluride Thin Film from Solution Processed Colloidal Nanoplates. <i>Advanced Materials Technologies</i> , 2020, 5, 2000600.	3.0	26
25	Mechanical Properties of Graphene Foam and Graphene Foam-Tissue Composites. <i>Advanced Engineering Materials</i> , 2018, 20, 1800166.	1.6	25
26	Electrical Transport and Power Dissipation in Aerosol-Jet-Printed Graphene Interconnects. <i>Scientific Reports</i> , 2018, 8, 10842.	1.6	25
27	Aerosol jet printed capacitive strain gauge for soft structural materials. <i>Npj Flexible Electronics</i> , 2020, 4, .	5.1	23
28	Synergic Antitumor Effect of Photodynamic Therapy and Chemotherapy Mediated by Nano Drug Delivery Systems. <i>Pharmaceutics</i> , 2022, 14, 322.	2.0	22
29	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.	4.0	17
30	Fully inkjet-printed multilayered graphene-based flexible electrodes for repeatable electrochemical response. <i>RSC Advances</i> , 2020, 10, 38205-38219.	1.7	17
31	Solution-Mediated Selective Nanosoldering of Carbon Nanotube Junctions for Improved Device Performance. <i>ACS Nano</i> , 2015, 9, 4806-4813.	7.3	16
32	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.	1.1	13
33	High field breakdown characteristics of carbon nanotube thin film transistors. <i>Nanotechnology</i> , 2013, 24, 405204.	1.3	13
34	Modeling and Analysis of Intercalant Effects on Circular DNA Conformation. <i>ACS Nano</i> , 2016, 10, 8910-8917.	7.3	12
35	Tip-based nanofabrication of arbitrary shapes of graphene nanoribbons for device applications. <i>RSC Advances</i> , 2015, 5, 37006-37012.	1.7	10
36	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.	2.6	9

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37	Removal and recovery of ammonia from simulated wastewater using Ti ₃ C ₂ T _x MXene in flow electrode capacitive deionization. <i>Npj Clean Water</i> , 2022, 5, .	3.1	9
38	Avalanche, joule breakdown and hysteresis in carbon nanotube transistors. , 2009, , .		8
39	Open-source automated chemical vapor deposition system for the production of two-dimensional nanomaterials. <i>PLoS ONE</i> , 2019, 14, e0210817.	1.1	7
40	Mechanochemical conversion kinetics of red to black phosphorus and scaling parameters for high volume synthesis. <i>Npj 2D Materials and Applications</i> , 2020, 4, .	3.9	7
41	Measurement of Signal-to-Noise Ratio In Graphene-based Passive Microelectrode Arrays. <i>Electroanalysis</i> , 2019, 31, 991-1001.	1.5	3
42	Graphene Sensors: Polycrystalline Graphene Ribbons as Chemiresistors (<i>Adv. Mater.</i> 1/2012). <i>Advanced Materials</i> , 2012, 24, 52-52.	11.1	2
43	Additive Manufacturing of Miniaturized Peak Temperature Monitors for In-Pile Applications. <i>Sensors</i> , 2021, 21, 7688.	2.1	2
44	Atomic-scale study of scattering and electronic properties of CVD graphene grain boundaries. , 2012, , .		1
45	Utilizing a Single Silica Nanospring as an Insulating Support to Characterize the Electrical Transport and Morphology of Nanocrystalline Graphite. <i>Materials</i> , 2019, 12, 3794.	1.3	1
46	Production and Characterization of Graphene and Other 2-dimensional Nanomaterials: An AP High School Inquiry Lab (Curriculum Exchange). , 2015, , 26.1257.1.		0
47	Tailored I_{ON}/I_{OFF} ratio of nanotube network transistors by pulsed breakdown. , 2009, , .		0
48	Nanoscale power and heat management in electronics. , 2012, , .		0
49	Nanosoldering carbon nanotube junctions with metal via local chemical vapor deposition for improved device performance. , 2012, , .		0
50	Defect limited reliability and transport in carbon nanotube and graphene devices. , 2015, , .		0