David Estrada

List of Publications by Year in Descending Order

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	Synergic Antitumor Effect of Photodynamic Therapy and Chemotherapy Mediated by Nano Drug Delivery Systems.. *Pharmaceutics*, **2022**, 14,	6.4	4
43	Aerosol jet printed capacitive strain gauge for soft structural materials. *Npj Flexible Electronics*, **2020**, 4,	10.7	4
42	Flexible Thermoelectric Devices of Ultrahigh Power Factor by Scalable Printing and Interface Engineering. *Advanced Functional Materials*, **2020**, 30, 1905796	15.6	50
41	Fully inkjet-printed multilayered graphene-based flexible electrodes for repeatable electrochemical response.. *RSC Advances*, **2020**, 10, 38205-38219	3.7	4
40	A Review of Inkjet Printed Graphene and Carbon Nanotubes Based Gas Sensors. *Sensors*, **2020**, 20,	3.8	21
39	High-Performance Flexible Bismuth Telluride Thin Film from Solution Processed Colloidal Nanoplates. *Advanced Materials Technologies*, **2020**, 5, 2000600	6.8	17
38	Mechanochemical conversion kinetics of red to black phosphorus and scaling parameters for high volume synthesis. *Npj 2D Materials and Applications*, **2020**, 4,	8.8	1
37	A parametric study for in-pile use of the thermal conductivity needle probe using a transient, multilayered analytical model. *International Journal of Thermal Sciences*, **2019**, 145, 106028	4.1	5
36	Thermal transport in layer-by-layer assembled polycrystalline graphene films. *Npj 2D Materials and Applications*, **2019**, 3,	8.8	21
35	Measurement of Signal-to-Noise Ratio In Graphene-based Passive Microelectrode Arrays. *Electroanalysis*, **2019**, 31, 991-1001	3	2
34	Prechondrogenic ATDC5 Cell Attachment and Differentiation on Graphene Foam; Modulation by Surface Functionalization with Fibronectin. *ACS Applied Materials & Interfaces*, **2019**, 11, 41906-41924	9.5	9
33	Utilizing a Single Silica Nanospring as an Insulating Support to Characterize the Electrical Transport and Morphology of Nanocrystalline Graphite. *Materials*, **2019**, 12,	3.5	1
32	The sp2-sp3 carbon hybridization content of nanocrystalline graphite from pyrolyzed vegetable oil, comparison of electrochemistry and physical properties with other carbon forms and allotropes. *Carbon*, **2019**, 144, 831-840	10.4	21
31	Open-source automated chemical vapor deposition system for the production of two- dimensional nanomaterials. *PLoS ONE*, **2019**, 14, e0210817	3.7	1
30	Electrical Transport and Power Dissipation in Aerosol-Jet-Printed Graphene Interconnects. *Scientific Reports*, **2018**, 8, 10842	4.9	15
29	Mechanical Properties of Graphene Foam and Graphene Foam - Tissue Composites. *Advanced Engineering Materials*, **2018**, 20, 1800166	3.5	17
28	Detection of methylation on dsDNA using nanopores in a MoS membrane. *Nanoscale*, **2017**, 9, 14836-14845	7.7	25

27	Modeling and Analysis of Intercalant Effects on Circular DNA Conformation. *ACS Nano*, **2016**, 10, 8910-7	16.7	10
26	High-performance and flexible thermoelectric films by screen printing solution-processed nanoplate crystals. *Scientific Reports*, **2016**, 6, 33135	4.9	104
25	Graphene Foam as a three-dimensional Platform for Myotube Growth. *ACS Biomaterials Science and Engineering*, **2016**, 2, 1234-1241	5.5	52
24	Thermal conductivity of chirality-sorted carbon nanotube networks. *Applied Physics Letters*, **2016**, 108, 103101	3.4	34
23	Bimodal Phonon Scattering in Graphene Grain Boundaries. *Nano Letters*, **2015**, 15, 4532-40	11.5	71
22	Solution-mediated selective nanosoldering of carbon nanotube junctions for improved device performance. *ACS Nano*, **2015**, 9, 4806-13	16.7	15
21	Tip-Based Nanofabrication of Arbitrary Shapes of Graphene Nanoribbons for Device Applications. *RSC Advances*, **2015**, 5, 37006-37012	3.7	9
20	Production and Characterization of Graphene and Other 2-dimensional Nanomaterials: An AP High School Inquiry Lab (Curriculum Exchange) **2015**, 26.1257.1		
19	Direct observation of resistive heating at graphene wrinkles and grain boundaries. *Applied Physics Letters*, **2014**, 105, 143109	3.4	43
18	Atomic-scale evidence for potential barriers and strong carrier scattering at graphene grain boundaries: a scanning tunneling microscopy study. *ACS Nano*, **2013**, 7, 75-86	16.7	118
17	Electrochemistry at the edge of a single graphene layer in a nanopore. *ACS Nano*, **2013**, 7, 834-43	16.7	95
16	High-field transport and thermal reliability of sorted carbon nanotube network devices. *ACS Nano*, **2013**, 7, 482-90	16.7	31
15	Nanosoldering carbon nanotube junctions by local chemical vapor deposition for improved device performance. *Nano Letters*, **2013**, 13, 5844-50	11.5	35
14	High field breakdown characteristics of carbon nanotube thin film transistors. *Nanotechnology*, **2013**, 24, 405204	3.4	13
13	Polycrystalline graphene ribbons as chemiresistors. *Advanced Materials*, **2012**, 24, 53-7, 52	24	150
12	Graphene Sensors: Polycrystalline Graphene Ribbons as Chemiresistors (Adv. Mater. 1/2012). *Advanced Materials*, **2012**, 24, 52-52	24	1
11	Chemical sensors based on randomly stacked graphene flakes. *Applied Physics Letters*, **2012**, 100, 033111	3.4	45
10	Atomic-scale study of scattering and electronic properties of CVD graphene grain boundaries **2012**,		1

9	Stacked graphene-Al2O3 nanopore sensors for sensitive detection of DNA and DNA-protein complexes. *ACS Nano*, **2012**, 6, 441-50	16.7	173
8	Effect of carbon nanotube network morphology on thin film transistor performance. *Nano Research* , **2012**, 5, 307-319	10	53
7	Impact of thermal boundary conductances on power dissipation and electrical breakdown of carbon nanotube network transistors. *Journal of Applied Physics*, **2012**, 112, 124506	2.5	11
6	Stretchable, transparent graphene interconnects for arrays of microscale inorganic light emitting diodes on rubber substrates. *Nano Letters*, **2011**, 11, 3881-6	11.5	281
5	Low-power switching of phase-change materials with carbon nanotube electrodes. *Science*, **2011**, 332, 568-70	33.3	408
4	Imaging dissipation and hot spots in carbon nanotube network transistors. *Applied Physics Letters*, **2011**, 98, 073102	3.4	54
3	Imaging, simulation, and electrostatic control of power dissipation in graphene devices. *Nano Letters*, **2010**, 10, 4787-93	11.5	141
2	Reduction of hysteresis for carbon nanotube mobility measurements using pulsed characterization. *Nanotechnology*, **2010**, 21, 85702	3.4	88
1	Avalanche, joule breakdown and hysteresis in carbon nanotube transistors **2009**,		7