

# Antonio Esau Del Rio Castillo

## List of Publications by Citations

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56  
papers

2,809  
citations

31  
h-index

52  
g-index

59  
ext. papers

3,337  
ext. citations

10.9  
avg, IF

5.18  
L-index

#	Paper	IF	Citations
56	Dispersibility-Dependent Biodegradation of Graphene Oxide by Myeloperoxidase. <i>Small</i> , <b>2015</b> , 11, 3985-94	14.1	176
55	Graphene Interface Engineering for Perovskite Solar Modules: 12.6% Power Conversion Efficiency over 50 cm <sup>2</sup> Active Area. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 279-287	20.1	162
54	Ink-jet printing of graphene for flexible electronics: An environmentally-friendly approach. <i>Solid State Communications</i> , <b>2015</b> , 224, 53-63	1.6	162
53	MoS Quantum Dot/Graphene Hybrids for Advanced Interface Engineering of a CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Solar Cell with an Efficiency of over 20. <i>ACS Nano</i> , <b>2018</b> , 12, 10736-10754	16.7	138
52	Graphene-Perovskite Solar Cells Exceed 18 % Efficiency: A Stability Study. <i>ChemSusChem</i> , <b>2016</b> , 9, 2609-2619	8.19	133
51	Scalable Production of Graphene Inks via Wet-Jet Milling Exfoliation for Screen-Printed Micro-Supercapacitors. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1807659	15.6	123
50	Selective organic functionalization of graphene bulk or graphene edges. <i>Chemical Communications</i> , <b>2011</b> , 47, 9330-2	5.8	108
49	Engineered MoSe <sub>2</sub> -Based Heterostructures for Efficient Electrochemical Hydrogen Evolution Reaction. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1703212	21.8	107
48	High-yield production of 2D crystals by wet-jet milling. <i>Materials Horizons</i> , <b>2018</b> , 5, 890-904	14.4	92
47	Extending the Continuous Operating Lifetime of Perovskite Solar Cells with a Molybdenum Disulfide Hole Extraction Interlayer. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1702287	21.8	90
46	Mechanically Stacked, Two-Terminal Graphene-Based Perovskite/Silicon Tandem Solar Cell with Efficiency over 26%. <i>Joule</i> , <b>2020</b> , 4, 865-881	27.8	76
45	Black phosphorus polycarbonate polymer composite for pulsed fibre lasers. <i>Applied Materials Today</i> , <b>2016</b> , 4, 17-23	6.6	74
44	Exfoliation of Few-Layer Black Phosphorus in Low-Boiling-Point Solvents and Its Application in Li-Ion Batteries. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 506-516	9.6	74
43	Size-Tuning of WSe Flakes for High Efficiency Inverted Organic Solar Cells. <i>ACS Nano</i> , <b>2017</b> , 11, 3517-3531	16.7	72
42	WS-Graphite Dual-Ion Batteries. <i>Nano Letters</i> , <b>2018</b> , 18, 7155-7164	11.5	68
41	Liquid-Phase Exfoliated Indium-Selenide Flakes and Their Application in Hydrogen Evolution Reaction. <i>Small</i> , <b>2018</b> , 14, e1800749	11	68
40	Binder-free graphene as an advanced anode for lithium batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 6886-6895	13	67

39	Solution-Processed Hybrid Graphene Flake/2H-MoS <sub>2</sub> Quantum Dot Heterostructures for Efficient Electrochemical Hydrogen Evolution. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 5782-5786	9.6	66
38	Selective suspension of single layer graphene mechanochemically exfoliated from carbon nanofibres. <i>Nano Research</i> , <b>2014</b> , 7, 963-972	10	62
37	Graphene-Based Electron Transport Layers in Perovskite Solar Cells: A Step-Up for an Efficient Carrier Collection. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1701349	21.8	60
36	Detection of Endotoxin Contamination of Graphene Based Materials Using the TNF- $\alpha$ Expression Test and Guidelines for Endotoxin-Free Graphene Oxide Production. <i>PLoS ONE</i> , <b>2016</b> , 11, e0166816	3.7	58
35	Graphene-Induced Improvements of Perovskite Solar Cell Stability: Effects on Hot-Carriers. <i>Nano Letters</i> , <b>2019</b> , 19, 684-691	11.5	53
34	Thermal Stability and Anisotropic Sublimation of Two-Dimensional Colloidal Bi <sub>2</sub> Te <sub>3</sub> and Bi <sub>2</sub> Se <sub>3</sub> Nanocrystals. <i>Nano Letters</i> , <b>2016</b> , 16, 4217-23	11.5	51
33	Doped-MoSe <sub>2</sub> Nanoflakes/3d Metal OxideHydr(Oxy)Oxides Hybrid Catalysts for pH-Universal Electrochemical Hydrogen Evolution Reaction. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801764	21.8	50
32	Few-layer graphene improves silicon performance in Li-ion battery anodes. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 19306-19315	13	48
31	Few-layer MoS <sub>2</sub> flakes as a hole-selective layer for solution-processed hybrid organic hydrogen-evolving photocathodes. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 4384-4396	13	43
30	An anisotropic layer-by-layer carbon nanotube/boron nitride/rubber composite and its application in electromagnetic shielding. <i>Nanoscale</i> , <b>2020</b> , 12, 7782-7791	7.7	39
29	Effect of graphene nano-platelet morphology on the elastic modulus of soft and hard biopolymers. <i>Carbon</i> , <b>2016</b> , 109, 331-339	10.4	38
28	Applications of supercritical fluids to enhance the dissolution behaviors of Furosemide by generation of microparticles and solid dispersions. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2012</b> , 81, 131-41	5.7	35
27	Cellulosic Graphene Biocomposites for Versatile High-Performance Flexible Electronic Applications. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1600245	6.4	35
26	Graphene Quantum Dot-Aerogel: From Nanoscopic to Macroscopic Fluorescent Materials. Sensing Polyaromatic Compounds in Water. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 18192-18201	9.5	32
25	High-Power GrapheneCarbon Nanotube Hybrid Supercapacitors. <i>ChemNanoMat</i> , <b>2017</b> , 3, 436-446	3.5	30
24	Biotransformation and Biological Interaction of Graphene and Graphene Oxide during Simulated Oral Ingestion. <i>Small</i> , <b>2018</b> , 14, e1800227	11	27
23	How much does size really matter? Exploring the limits of graphene as Li ion battery anode material. <i>Solid State Communications</i> , <b>2017</b> , 251, 88-93	1.6	25
22	Single-step exfoliation and functionalization of few-layers black phosphorus and its application for polymer composites. <i>FlatChem</i> , <b>2019</b> , 18, 100131	5.1	24

21	Scalable spray-coated graphene-based electrodes for high-power electrochemical double-layer capacitors operating over a wide range of temperature. <i>Energy Storage Materials</i> , <b>2021</b> , 34, 1-11	19.4	24
20	Graphene-engineered automated sprayed mesoscopic structure for perovskite device scaling-up. <i>2D Materials</i> , <b>2018</b> , 5, 045034	5.9	22
19	Graphene-Based Hole-Selective Layers for High-Efficiency, Solution-Processed, Large-Area, Flexible, Hydrogen-Evolving Organic Photocathodes. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 21887-21903	3.8	22
18	Flexible Graphene/Carbon Nanotube Electrochemical Double-Layer Capacitors with Ultrahigh Areal Performance. <i>ChemPlusChem</i> , <b>2019</b> , 84, 882-892	2.8	20
17	CVD-graphene/graphene flakes dual-films as advanced DSSC counter electrodes. <i>2D Materials</i> , <b>2019</b> , 6, 035007	5.9	20
16	Carbon nanotubes-bridged molybdenum trioxide nanosheets as high performance anode for lithium ion batteries. <i>2D Materials</i> , <b>2018</b> , 5, 015024	5.9	17
15	Ultralow friction of ink-jet printed graphene flakes. <i>Nanoscale</i> , <b>2017</b> , 9, 7612-7624	7.7	15
14	In sliding graphene: a novel concept to boost supercapacitor performance. <i>Nanoscale Horizons</i> , <b>2019</b> , 4, 1077-1091	10.8	15
13	Graphene morphology effect on the gas barrier, mechanical and thermal properties of thermoplastic polyurethane. <i>Composites Science and Technology</i> , <b>2020</b> , 200, 108461	8.6	13
12	A few-layer graphene for advanced composite PVDF membranes dedicated to water desalination: a comparative study. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 4728-4739	5.1	12
11	Nitrogen-doped graphene based triboelectric nanogenerators. <i>Nano Energy</i> , <b>2021</b> , 87, 106173	17.1	11
10	A two-fold engineering approach based on Bi <sub>2</sub> Te <sub>3</sub> flakes towards efficient and stable inverted perovskite solar cells. <i>Materials Advances</i> , <b>2020</b> , 1, 450-462	3.3	10
9	High-Sulfur-Content Graphene-Based Composite through Ethanol Evaporation for High-Energy Lithium-Sulfur Battery. <i>ChemSusChem</i> , <b>2020</b> , 13, 1593-1602	8.3	9
8	Graphene and related 2D materials for high efficient and stable perovskite solar cells <b>2017</b> ,		6
7	An integrated and multi-technique approach to characterize airborne graphene flakes in the workplace during production phases. <i>Nanoscale</i> , <b>2021</b> , 13, 3841-3852	7.7	6
6	Exfoliated BiTe-enabled membranes for new concept water desalination: Freshwater production meets new routes. <i>Water Research</i> , <b>2021</b> , 203, 117503	12.5	5
5	Spray deposition of exfoliated MoS <sub>2</sub> flakes as hole transport layer in perovskite-based photovoltaics <b>2015</b> ,		3
4	3D printed silicon-few layer graphene anode for advanced Li-ion batteries.. <i>RSC Advances</i> , <b>2021</b> , 11, 35051-35060	5.1	60

3	Poly(methyl methacrylate)-Assisted Exfoliation of Graphite and Its Use in Acrylonitrile-Butadiene-Styrene Composites. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 6715-6725	4.8	1
2	Few-Layers Graphene-Based Cement Mortars: Production Process and Mechanical Properties. <i>Sustainability</i> , <b>2022</b> , 14, 784	3.6	1
1	Multi-walled carbon nanotubes enhance the genetic transformation of <i>Bifidobacterium longum</i> . <i>Carbon</i> , <b>2021</b> , 184, 902-909	10.4	0