

# Antonio Esau Del Rio Castillo

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

3,813  
citations

117625

34  
h-index

155660

55  
g-index

59  
all docs

59  
docs citations

59  
times ranked

6314  
citing authors

#	ARTICLE	IF	CITATIONS
1	Few-Layers Graphene-Based Cement Mortars: Production Process and Mechanical Properties. Sustainability, 2022, 14, 784.	3.2	8
2	Integration of two-dimensional materials-based perovskite solar panels into a stand-alone solar farm. Nature Energy, 2022, 7, 597-607.	39.5	66
3	Scalable spray-coated graphene-based electrodes for high-power electrochemical double-layer capacitors operating over a wide range of temperature. Energy Storage Materials, 2021, 34, 1-11.	18.0	61
4	An integrated and multi-technique approach to characterize airborne graphene flakes in the workplace during production phases. Nanoscale, 2021, 13, 3841-3852.	5.6	11
5	Exfoliated Bi <sub>2</sub> Te <sub>3</sub> -enabled membranes for new concept water desalination: Freshwater production meets new routes. Water Research, 2021, 203, 117503.	11.3	8
6	Nitrogen-doped graphene based triboelectric nanogenerators. Nano Energy, 2021, 87, 106173.	16.0	30
7	Multi-walled carbon nanotubes enhance the genetic transformation of Bifidobacterium longum. Carbon, 2021, 184, 902-909.	10.3	3
8	3D printed silicon-few layer graphene anode for advanced Li-ion batteries. RSC Advances, 2021, 11, 35051-35060.	3.6	13
9	High-Sulfur-Content Graphene-Based Composite through Ethanol Evaporation for High-Energy Lithium-Sulfur Battery. ChemSusChem, 2020, 13, 1593-1602.	6.8	14
10	Graphene morphology effect on the gas barrier, mechanical and thermal properties of thermoplastic polyurethane. Composites Science and Technology, 2020, 200, 108461.	7.8	30
11	A few-layer graphene for advanced composite PVDF membranes dedicated to water desalination: a comparative study. Nanoscale Advances, 2020, 2, 4728-4739.	4.6	19
12	A two-fold engineering approach based on Bi <sub>2</sub> Te <sub>3</sub> flakes towards efficient and stable inverted perovskite solar cells. Materials Advances, 2020, 1, 450-462.	5.4	21
13	An anisotropic layer-by-layer carbon nanotube/boron nitride/rubber composite and its application in electromagnetic shielding. Nanoscale, 2020, 12, 7782-7791.	5.6	68
14	Poly(methyl methacrylate)-Assisted Exfoliation of Graphite and Its Use in Acrylonitrile-Butadiene-Styrene Composites. Chemistry - A European Journal, 2020, 26, 6715-6725.	3.3	2
15	Mechanically Stacked, Two-Terminal Graphene-Based Perovskite/Silicon Tandem Solar Cell with Efficiency over 26%. Joule, 2020, 4, 865-881.	24.0	125
16	Single-step exfoliation and functionalization of few-layers black phosphorus and its application for polymer composites. FlatChem, 2019, 18, 100131.	5.6	28
17	Graphene-Induced Improvements of Perovskite Solar Cell Stability: Effects on Hot-Carriers. Nano Letters, 2019, 19, 684-691.	9.1	72
18	Flexible Graphene/Carbon Nanotube Electrochemical Double-Layer Capacitors with Ultrahigh Areal Performance. ChemPlusChem, 2019, 84, 882-892.	2.8	28

#	ARTICLE	IF	CITATIONS
19	CVD-graphene/graphene flakes dual-films as advanced DSSC counter electrodes. 2D Materials, 2019, 6, 035007.	4.4	23
20	â€œlon slidingâ€œ on graphene: a novel concept to boost supercapacitor performance. Nanoscale Horizons, 2019, 4, 1077-1091.	8.0	22
21	Scalable Production of Graphene Inks via Wetâ€œJet Milling Exfoliation for Screenâ€œPrinted Microâ€œSupercapacitors. Advanced Functional Materials, 2019, 29, 1807659.	14.9	174
22	Extending the Continuous Operating Lifetime of Perovskite Solar Cells with a Molybdenum Disulfide Hole Extraction Interlayer. Advanced Energy Materials, 2018, 8, 1702287.	19.5	121
23	Engineered MoSe <sub>2</sub> â€œBased Heterostructures for Efficient Electrochemical Hydrogen Evolution Reaction. Advanced Energy Materials, 2018, 8, 1703212.	19.5	152
24	Exfoliation of Few-Layer Black Phosphorus in Low-Boiling-Point Solvents and Its Application in Li-Ion Batteries. Chemistry of Materials, 2018, 30, 506-516.	6.7	93
25	Carbon nanotubes-bridged molybdenum trioxide nanosheets as high performance anode for lithium ion batteries. 2D Materials, 2018, 5, 015024.	4.4	21
26	MoS <sub>2</sub> 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%. ACS Nano, 2018, 12, 10736-10754.	14.6	201
27	WS <sub>2</sub> â€œGraphite Dual-Ion Batteries. Nano Letters, 2018, 18, 7155-7164.	9.1	88
28	Liquidâ€œPhase Exfoliated Indiumâ€œSelenide Flakes and Their Application in Hydrogen Evolution Reaction. Small, 2018, 14, e1800749.	10.0	90
29	High-yield production of 2D crystals by wet-jet milling. Materials Horizons, 2018, 5, 890-904.	12.2	139
30	Biotransformation and Biological Interaction of Graphene and Graphene Oxide during Simulated Oral Ingestion. Small, 2018, 14, e1800227.	10.0	42
31	Graphene Quantum Dotâ€œAerogel: From Nanoscopic to Macroscopic Fluorescent Materials. Sensing Polyaromatic Compounds in Water. ACS Applied Materials & Interfaces, 2018, 10, 18192-18201.	8.0	48
32	Graphene-engineered automated sprayed mesoscopic structure for perovskite device scaling-up. 2D Materials, 2018, 5, 045034.	4.4	34
33	Dopedâ€œMoSe <sub>2</sub> Nanoflakes/3d Metal Oxideâ€œHydr(Oxy)Oxides Hybrid Catalysts for pHâ€œUniversal Electrochemical Hydrogen Evolution Reaction. Advanced Energy Materials, 2018, 8, 1801764.	19.5	67
34	How much does size really matter? Exploring the limits of graphene as Li ion battery anode material. Solid State Communications, 2017, 251, 88-93.	1.9	36
35	Size-Tuning of WSe <sub>2</sub> Flakes for High Efficiency Inverted Organic Solar Cells. ACS Nano, 2017, 11, 3517-3531.	14.6	90
36	Few-layer MoS <sub>2</sub> flakes as a hole-selective layer for solution-processed hybrid organic hydrogen-evolving photocathodes. Journal of Materials Chemistry A, 2017, 5, 4384-4396.	10.3	55

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37	High-Power Graphene-Carbon Nanotube Hybrid Supercapacitors. ChemNanoMat, 2017, 3, 436-446.	2.8	39
38	Ultralow friction of ink-jet printed graphene flakes. Nanoscale, 2017, 9, 7612-7624.	5.6	20
39	Graphene Interface Engineering for Perovskite Solar Modules: 12.6% Power Conversion Efficiency over 50 cm <sup>2</sup> Active Area. ACS Energy Letters, 2017, 2, 279-287.	17.4	196
40	Graphene-Based Electron Transport Layers in Perovskite Solar Cells: A Step-Up for an Efficient Carrier Collection. Advanced Energy Materials, 2017, 7, 1701349.	19.5	85
41	Graphene-Based Hole-Selective Layers for High-Efficiency, Solution-Processed, Large-Area, Flexible, Hydrogen-Evolving Organic Photocathodes. Journal of Physical Chemistry C, 2017, 121, 21887-21903.	3.1	30
42	Few-layer graphene improves silicon performance in Li-ion battery anodes. Journal of Materials Chemistry A, 2017, 5, 19306-19315.	10.3	54
43	Solution-Processed Hybrid Graphene Flake/2H-MoS <sub>2</sub> Quantum Dot Heterostructures for Efficient Electrochemical Hydrogen Evolution. Chemistry of Materials, 2017, 29, 5782-5786.	6.7	93
44	Graphene and related 2D materials for high efficient and stable perovskite solar cells. , 2017, , .		8
45	Black phosphorus polycarbonate polymer composite for pulsed fibre lasers. Applied Materials Today, 2016, 4, 17-23.	4.3	87
46	Cellulosic Graphene Biocomposites for Versatile High-Performance Flexible Electronic Applications. Advanced Electronic Materials, 2016, 2, 1600245.	5.1	39
47	Effect of graphene nano-platelet morphology on the elastic modulus of soft and hard biopolymers. Carbon, 2016, 109, 331-339.	10.3	44
48	Graphene-Perovskite Solar Cells Exceed 18% Efficiency: A Stability Study. ChemSusChem, 2016, 9, 2609-2619.	6.8	163
49	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. Nano Letters, 2016, 16, 4217-4223.	9.1	60
50	Binder-free graphene as an advanced anode for lithium batteries. Journal of Materials Chemistry A, 2016, 4, 6886-6895.	10.3	79
51	Detection of Endotoxin Contamination of Graphene Based Materials Using the TNF- $\alpha$ Expression Test and Guidelines for Endotoxin-Free Graphene Oxide Production. PLoS ONE, 2016, 11, e0166816.	2.5	84
52	Spray deposition of exfoliated MoS <sub>2</sub> flakes as hole transport layer in perovskite-based photovoltaics. , 2015, , .		5
53	Dispersibility-Dependent Biodegradation of Graphene Oxide by Myeloperoxidase. Small, 2015, 11, 3985-3994.	10.0	215
54	Ink-jet printing of graphene for flexible electronics: An environmentally-friendly approach. Solid State Communications, 2015, 224, 53-63.	1.9	187

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55	Selective suspension of single layer graphene mechanochemically exfoliated from carbon nanofibres. Nano Research, 2014, 7, 963-972.	10.4	73
56	Applications of supercritical fluids to enhance the dissolution behaviors of Furosemide by generation of microparticles and solid dispersions. European Journal of Pharmaceutics and Biopharmaceutics, 2012, 81, 131-141.	4.3	35
57	Selective organic functionalization of graphene bulk or graphene edges. Chemical Communications, 2011, 47, 9330.	4.1	114
58	One-dimensional heterostructure: The selective decoration of single-walled carbon nanotube tips with metallic nanoparticles. MRS Bulletin, 0, , .	3.5	0