

Antonio Esau Del Rio Castillo

List of Publications by Year in Descending Order

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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.

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	Few-Layers Graphene-Based Cement Mortars: Production Process and Mechanical Properties. <i>Sustainability</i> , 2022 , 14, 784	3.6	1
55	3D printed silicon-few layer graphene anode for advanced Li-ion batteries.. <i>RSC Advances</i> , 2021 , 11, 35051-35060	3.7	17
54	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> , 2021 , 34, 1-11	19.4	24
53	An integrated and multi-technique approach to characterize airborne graphene flakes in the workplace during production phases. <i>Nanoscale</i> , 2021 , 13, 3841-3852	7.7	6
52	Exfoliated BiTe-enabled membranes for new concept water desalination: Freshwater production meets new routes. <i>Water Research</i> , 2021 , 203, 117503	12.5	5
51	Nitrogen-doped graphene based triboelectric nanogenerators. <i>Nano Energy</i> , 2021 , 87, 106173	17.1	11
50	Multi-walled carbon nanotubes enhance the genetic transformation of Bifidobacterium longum. <i>Carbon</i> , 2021 , 184, 902-909	10.4	0
49	A two-fold engineering approach based on Bi ₂ Te ₃ flakes towards efficient and stable inverted perovskite solar cells. <i>Materials Advances</i> , 2020 , 1, 450-462	3.3	10
48	An anisotropic layer-by-layer carbon nanotube/boron nitride/rubber composite and its application in electromagnetic shielding. <i>Nanoscale</i> , 2020 , 12, 7782-7791	7.7	39
47	Poly(methyl methacrylate)-Assisted Exfoliation of Graphite and Its Use in Acrylonitrile-Butadiene-Styrene Composites. <i>Chemistry - A European Journal</i> , 2020 , 26, 6715-6725	4.8	1
46	Mechanically Stacked, Two-Terminal Graphene-Based Perovskite/Silicon Tandem Solar Cell with Efficiency over 26%. <i>Joule</i> , 2020 , 4, 865-881	27.8	76
45	Graphene morphology effect on the gas barrier, mechanical and thermal properties of thermoplastic polyurethane. <i>Composites Science and Technology</i> , 2020 , 200, 108461	8.6	13
44	A few-layer graphene for advanced composite PVDF membranes dedicated to water desalination: a comparative study. <i>Nanoscale Advances</i> , 2020 , 2, 4728-4739	5.1	12
43	High-Sulfur-Content Graphene-Based Composite through Ethanol Evaporation for High-Energy Lithium-Sulfur Battery. <i>ChemSusChem</i> , 2020 , 13, 1593-1602	8.3	9
42	Single-step exfoliation and functionalization of few-layers black phosphorus and its application for polymer composites. <i>FlatChem</i> , 2019 , 18, 100131	5.1	24
41	Graphene-Induced Improvements of Perovskite Solar Cell Stability: Effects on Hot-Carriers. <i>Nano Letters</i> , 2019 , 19, 684-691	11.5	53
40	Flexible Graphene/Carbon Nanotube Electrochemical Double-Layer Capacitors with Ultrahigh Areal Performance. <i>ChemPlusChem</i> , 2019 , 84, 882-892	2.8	20

39	CVD-graphene/graphene flakes dual-films as advanced DSSC counter electrodes. <i>2D Materials</i> , 2019 , 6, 035007	5.9	20
38	Unsliding graphene: a novel concept to boost supercapacitor performance. <i>Nanoscale Horizons</i> , 2019 , 4, 1077-1091	10.8	15
37	Scalable Production of Graphene Inks via Wet-Jet Milling Exfoliation for Screen-Printed Micro-Supercapacitors. <i>Advanced Functional Materials</i> , 2019 , 29, 1807659	15.6	123
36	Extending the Continuous Operating Lifetime of Perovskite Solar Cells with a Molybdenum Disulfide Hole Extraction Interlayer. <i>Advanced Energy Materials</i> , 2018 , 8, 1702287	21.8	90
35	Engineered MoSe ₂ -Based Heterostructures for Efficient Electrochemical Hydrogen Evolution Reaction. <i>Advanced Energy Materials</i> , 2018 , 8, 1703212	21.8	107
34	High-yield production of 2D crystals by wet-jet milling. <i>Materials Horizons</i> , 2018 , 5, 890-904	14.4	92
33	Biotransformation and Biological Interaction of Graphene and Graphene Oxide during Simulated Oral Ingestion. <i>Small</i> , 2018 , 14, e1800227	11	27
32	Graphene Quantum Dot-Aerogel: From Nanoscopic to Macroscopic Fluorescent Materials. Sensing Polyaromatic Compounds in Water. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 18192-18201	9.5	32
31	Graphene-engineered automated sprayed mesoscopic structure for perovskite device scaling-up. <i>2D Materials</i> , 2018 , 5, 045034	5.9	22
30	Doped-MoSe ₂ Nanoflakes/3d Metal Oxide/Hydr(Oxy)Oxides Hybrid Catalysts for pH-Universal Electrochemical Hydrogen Evolution Reaction. <i>Advanced Energy Materials</i> , 2018 , 8, 1801764	21.8	50
29	Exfoliation of Few-Layer Black Phosphorus in Low-Boiling-Point Solvents and Its Application in Li-Ion Batteries. <i>Chemistry of Materials</i> , 2018 , 30, 506-516	9.6	74
28	Carbon nanotubes-bridged molybdenum trioxide nanosheets as high performance anode for lithium ion batteries. <i>2D Materials</i> , 2018 , 5, 015024	5.9	17
27	MoS ₂ Quantum Dot/Graphene Hybrids for Advanced Interface Engineering of a CH ₃ NH ₃ PbI ₃ Perovskite Solar Cell with an Efficiency of over 20. <i>ACS Nano</i> , 2018 , 12, 10736-10754	16.7	138
26	WS ₂ -Graphite Dual-Ion Batteries. <i>Nano Letters</i> , 2018 , 18, 7155-7164	11.5	68
25	Liquid-Phase Exfoliated Indium-Selenide Flakes and Their Application in Hydrogen Evolution Reaction. <i>Small</i> , 2018 , 14, e1800749	11	68
24	How much does size really matter? Exploring the limits of graphene as Li ion battery anode material. <i>Solid State Communications</i> , 2017 , 251, 88-93	1.6	25
23	Size-Tuning of WSe ₂ Flakes for High Efficiency Inverted Organic Solar Cells. <i>ACS Nano</i> , 2017 , 11, 3517-3531	16.7	72
22	Few-layer MoS ₂ flakes as a hole-selective layer for solution-processed hybrid organic hydrogen-evolving photocathodes. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4384-4396	13	43

21	High-Power Graphene/Carbon Nanotube Hybrid Supercapacitors. <i>ChemNanoMat</i> , 2017 , 3, 436-446	3.5	30
20	Ultralow friction of ink-jet printed graphene flakes. <i>Nanoscale</i> , 2017 , 9, 7612-7624	7.7	15
19	Graphene Interface Engineering for Perovskite Solar Modules: 12.6% Power Conversion Efficiency over 50 cm ² Active Area. <i>ACS Energy Letters</i> , 2017 , 2, 279-287	20.1	162
18	Graphene-Based Electron Transport Layers in Perovskite Solar Cells: A Step-Up for an Efficient Carrier Collection. <i>Advanced Energy Materials</i> , 2017 , 7, 1701349	21.8	60
17	Graphene-Based Hole-Selective Layers for High-Efficiency, Solution-Processed, Large-Area, Flexible, Hydrogen-Evolving Organic Photocathodes. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 21887-21903	23.8	22
16	Few-layer graphene improves silicon performance in Li-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19306-19315	13	48
15	Solution-Processed Hybrid Graphene Flake/2H-MoS ₂ Quantum Dot Heterostructures for Efficient Electrochemical Hydrogen Evolution. <i>Chemistry of Materials</i> , 2017 , 29, 5782-5786	9.6	66
14	Graphene and related 2D materials for high efficient and stable perovskite solar cells 2017 ,		6
13	Graphene-Perovskite Solar Cells Exceed 18 % Efficiency: A Stability Study. <i>ChemSusChem</i> , 2016 , 9, 2609-2619	26.9	133
12	Thermal Stability and Anisotropic Sublimation of Two-Dimensional Colloidal Bi ₂ Te ₃ and Bi ₂ Se ₃ Nanocrystals. <i>Nano Letters</i> , 2016 , 16, 4217-23	11.5	51
11	Binder-free graphene as an advanced anode for lithium batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6886-6895	13	67
10	Detection of Endotoxin Contamination of Graphene Based Materials Using the TNF- α Expression Test and Guidelines for Endotoxin-Free Graphene Oxide Production. <i>PLoS ONE</i> , 2016 , 11, e0166816	3.7	58
9	Black phosphorus polycarbonate polymer composite for pulsed fibre lasers. <i>Applied Materials Today</i> , 2016 , 4, 17-23	6.6	74
8	Cellulosic Graphene Biocomposites for Versatile High-Performance Flexible Electronic Applications. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600245	6.4	35
7	Effect of graphene nano-platelet morphology on the elastic modulus of soft and hard biopolymers. <i>Carbon</i> , 2016 , 109, 331-339	10.4	38
6	Dispersibility-Dependent Biodegradation of Graphene Oxide by Myeloperoxidase. <i>Small</i> , 2015 , 11, 3985-94	9.4	176
5	Ink-jet printing of graphene for flexible electronics: An environmentally-friendly approach. <i>Solid State Communications</i> , 2015 , 224, 53-63	1.6	162
4	Spray deposition of exfoliated MoS ₂ flakes as hole transport layer in perovskite-based photovoltaics 2015 ,		3

3	Selective suspension of single layer graphene mechanochemically exfoliated from carbon nanofibres. <i>Nano Research</i> , 2014 , 7, 963-972	10	62
2	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> , 2012 , 81, 131-41	5-7	35
1	Selective organic functionalization of graphene bulk or graphene edges. <i>Chemical Communications</i> , 2011 , 47, 9330-2	5.8	108