

Rodrigo Villegas Salvatierra

List of Publications by Citations

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44
papers

2,051
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44
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2,416
ext. citations

11
avg, IF

5.04
L-index

#	Paper	IF	Citations
44	Gram-scale bottom-up flash graphene synthesis. <i>Nature</i> , 2020 , 577, 647-651	50.4	201
43	One-Pot Synthesis and Processing of Transparent, Conducting, and Freestanding Carbon Nanotubes/Polyaniline Composite Films. <i>Chemistry of Materials</i> , 2010 , 22, 5222-5234	9.6	198
42	Lithium Batteries with Nearly Maximum Metal Storage. <i>ACS Nano</i> , 2017 , 11, 6362-6369	16.7	154
41	ITO-Free and Flexible Organic Photovoltaic Device Based on High Transparent and Conductive Polyaniline/Carbon Nanotube Thin Films. <i>Advanced Functional Materials</i> , 2013 , 23, 1490-1499	15.6	148
40	Transparent and conductive thin films of graphene/polyaniline nanocomposites prepared through interfacial polymerization. <i>Chemical Communications</i> , 2011 , 47, 2592-4	5.8	138
39	Three-Dimensional Printed Graphene Foams. <i>ACS Nano</i> , 2017 , 11, 6860-6867	16.7	133
38	Doping effect on self-assembled films of polyaniline and carbon nanotube applied as ammonia gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2017 , 245, 25-33	8.5	102
37	Graphene Carbon Nanotube Carpets Grown Using Binary Catalysts for High-Performance Lithium-Ion Capacitors. <i>ACS Nano</i> , 2017 , 11, 2724-2733	16.7	78
36	Ultrafast Charging High Capacity Asphalt-Lithium Metal Batteries. <i>ACS Nano</i> , 2017 , 11, 10761-10767	16.7	70
35	Silicon Nanowires and Lithium Cobalt Oxide Nanowires in Graphene Nanoribbon Papers for Full Lithium Ion Battery. <i>Advanced Energy Materials</i> , 2016 , 6, 1600918	21.8	68
34	Dodecanethiol-Stabilized Platinum Nanoparticles Obtained by a Two-Phase Method: Synthesis, Characterization, Mechanism of Formation, and Electrocatalytic Properties. <i>Chemistry of Materials</i> , 2010 , 22, 360-370	9.6	62
33	Flexible, Transparent and Thin Films of Carbon Nanomaterials as Electrodes for Electrochemical Applications. <i>Electrochimica Acta</i> , 2016 , 197, 200-209	6.7	61
32	Resonant Raman spectroscopy and spectroelectrochemistry characterization of carbon nanotubes/polyaniline thin film obtained through interfacial polymerization. <i>Journal of Raman Spectroscopy</i> , 2012 , 43, 1094-1100	2.3	60
31	Suppressing Li Metal Dendrites Through a Solid Li-Ion Backup Layer. <i>Advanced Materials</i> , 2018 , 30, e1803869	16.7	49
30	Self-assembled films of multi-wall carbon nanotubes used in gas sensors to increase the sensitivity limit for oxygen detection. <i>Carbon</i> , 2012 , 50, 1953-1958	10.4	48
29	Tri-layer graphene films produced by mechanochemical exfoliation of graphite. <i>Carbon</i> , 2013 , 57, 410-415	10.4	42
28	Lightweight Hexagonal Boron Nitride Foam for CO Absorption. <i>ACS Nano</i> , 2017 , 11, 8944-8952	16.7	42

27	Three-Dimensional Rebar Graphene. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 7376-7384	9.5	39
26	Laser-Induced Silicon Oxide for Anode-Free Lithium Metal Batteries. <i>Advanced Materials</i> , 2020 , 32, e2002850	24.5	35
25	Hybrid MoS/h-BN Nanofillers As Synergic Heat Dissipation and Reinforcement Additives in Epoxy Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 24485-24492	9.5	28
24	Carbon nanotube/polyaniline nanocomposites: Electronic structure, doping level and morphology investigations. <i>Synthetic Metals</i> , 2015 , 203, 16-21	3.6	27
23	Detecting Li Dendrites in a Two-Electrode Battery System. <i>Advanced Materials</i> , 2019 , 31, e1807405	24	27
22	Germanium on seamless graphene carbon nanotube hybrids for lithium ion anodes. <i>Carbon</i> , 2017 , 123, 433-439	10.4	26
21	Ultra-Stiff Graphene Foams as Three-Dimensional Conductive Fillers for Epoxy Resin. <i>ACS Nano</i> , 2018 , 12, 11219-11228	16.7	26
20	The total chemical synthesis of polymer/graphene nanocomposite films. <i>Chemical Communications</i> , 2016 , 52, 1629-32	5.8	25
19	Electrical Properties of Self-Assembled Films of Polyaniline/Carbon Nanotubes Composites. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 24811-24818	3.8	24
18	Graphene chemically synthesized from benzene at liquid-liquid interfaces. <i>Carbon</i> , 2015 , 93, 924-932	10.4	24
17	Water based, solution-processable, transparent and flexible graphene oxide composite as electrodes in organic solar cell application. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 105106	3	23
16	Crumpled Graphene Decorated with Manganese Ferrite Nanoparticles for Hydrogen Peroxide Sensing and Electrochemical Supercapacitors. <i>ACS Applied Nano Materials</i> , 2020 , 3, 4859-4869	5.6	21
15	High Toughness in Ultralow Density Graphene Oxide Foam. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700030	10.3	15
14	Investigation of carbon nanotube/polyaniline nanocomposite thin films produced by interfacial polymerization through electron desorption. <i>Journal of Molecular Structure</i> , 2013 , 1037, 93-98	3.4	12
13	Top-down synthesis of graphene nanoribbons using different sources of carbon nanotubes. <i>Carbon</i> , 2020 , 158, 615-623	10.4	11
12	What Can be Expected from Anode-Free Lithium Metal Batteries?. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2000110	1.6	9
11	Tip-Sonicated Red Phosphorus-Graphene Nanoribbon Composite for Full Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 38936-38943	9.5	7
10	Achieving Self-Stiffening and Laser Healing by Interconnecting Graphene Oxide Sheets with Amine-Functionalized Ovalbumin. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800932	4.6	4

9	Less is more. <i>Nature Nanotechnology</i> , 2019 , 14, 500-501	28.7	3
8	Strain-controlled optical transmittance tuning of three-dimensional carbon nanotube architectures. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 1927-1933	7.1	3
7	Synthesis and Characterization of Carboxyl-Substituted Polyanilines Doped with Halogenated Acids: Combining Conductivity with Solubility. <i>Journal of the Brazilian Chemical Society</i> , 2014 ,	1.5	3
6	Interactions of iron-oxide filled carbon nanotubes with gas molecules. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 14340-6	3.6	2
5	W Clusters Assisted Synthesis of Layered Carbon Nanotube Arrays on Graphene Achieving High-Rate Performance. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 19117-19127	9.5	2
4	One-step synthesis of crumpled graphene fully decorated by copper-based nanoparticles: Application in H ₂ O ₂ sensing. <i>Sensors and Actuators B: Chemical</i> , 2022 , 360, 131649	8.5	1
3	Mechanical Properties of Ultralow Density Graphene Oxide/Polydimethylsiloxane Foams. <i>MRS Advances</i> , 2018 , 3, 61-66	0.7	0
2	In Situ Internal Strengthened Carbon Nanotube Carpets on Graphene for Anti-Icing Application. <i>ACS Applied Nano Materials</i> , 2021 , 4, 10952-10959	5.6	0
1	Advances in nanomaterials for sulfurized carbon cathodes 2022 , 241-270		