Rodrigo Villegas Salvatierra

List of Publications by Year in Descending Order

44 papers	2,051 citations	25 h-index	44 g-index
44 ext. papers	2,416 ext. citations	11 avg, IF	5.04 L-index

#	Paper	IF	Citations
44	One-step synthesis of crumpled graphene fully decorated by copper-based nanoparticles: Application in H2O2 sensing. *Sensors and Actuators B: Chemical*, **2022**, 360, 131649	8.5	1
43	Advances in nanomaterials for sulfurized carbon cathodes **2022**, 241-270		
42	In Situ Internal Strengthened Carbon Nanotube Carpets on Graphene for Anti-Icing Application. *ACS Applied Nano Materials*, **2021**, 4, 10952-10959	5.6	0
41	W Clusters Assisted Synthesis of Layered Carbon Nanotube Arrays on Graphene Achieving High-Rate Performance. *ACS Applied Materials & Interfaces*, **2021**, 13, 19117-19127	9.5	2
40	What Can be Expected from Anode-Free Lithium Metal Batteries?. *Advanced Energy and Sustainability Research*, **2021**, 2, 2000110	1.6	9
39	Laser-Induced Silicon Oxide for Anode-Free Lithium Metal Batteries. *Advanced Materials*, **2020**, 32, e2002850	24	35
38	Gram-scale bottom-up flash graphene synthesis. *Nature*, **2020**, 577, 647-651	50.4	201
37	Crumpled Graphene Decorated with Manganese Ferrite Nanoparticles for Hydrogen Peroxide Sensing and Electrochemical Supercapacitors. *ACS Applied Nano Materials*, **2020**, 3, 4859-4869	5.6	21
36	Top-down synthesis of graphene nanoribbons using different sources of carbon nanotubes. *Carbon*, **2020**, 158, 615-623	10.4	11
35	Less is more. *Nature Nanotechnology*, **2019**, 14, 500-501	28.7	3
34	Strain-controlled optical transmittance tuning of three-dimensional carbon nanotube architectures. *Journal of Materials Chemistry C*, **2019**, 7, 1927-1933	7.1	3
33	Detecting Li Dendrites in a Two-Electrode Battery System. *Advanced Materials*, **2019**, 31, e1807405	24	27
32	Hybrid MoS/h-BN Nanofillers As Synergic Heat Dissipation and Reinforcement Additives in Epoxy Nanocomposites. *ACS Applied Materials & Interfaces*, **2019**, 11, 24485-24492	9.5	28
31	Mechanical Properties of Ultralow Density Graphene Oxide/Polydimethylsiloxane Foams. *MRS Advances*, **2018**, 3, 61-66	0.7	0
30	Achieving Self-Stiffening and Laser Healing by Interconnecting Graphene Oxide Sheets with Amine-Functionalized Ovalbumin. *Advanced Materials Interfaces*, **2018**, 5, 1800932	4.6	4
29	Ultra-Stiff Graphene Foams as Three-Dimensional Conductive Fillers for Epoxy Resin. *ACS Nano*, **2018**, 12, 11219-11228	16.7	26
28	Tip-Sonicated Red Phosphorus-Graphene Nanoribbon Composite for Full Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 38936-38943	9.5	7

27	Suppressing Li Metal Dendrites Through a Solid Li-Ion Backup Layer. *Advanced Materials*, **2018**, 30, e1803869	21	49
26	Doping effect on self-assembled films of polyaniline and carbon nanotube applied as ammonia gas sensor. *Sensors and Actuators B: Chemical*, **2017**, 245, 25-33	8.5	102
25	Three-Dimensional Rebar Graphene. *ACS Applied Materials & Interfaces*, **2017**, 9, 7376-7384	9.5	39
24	Graphene Carbon Nanotube Carpets Grown Using Binary Catalysts for High-Performance Lithium-Ion Capacitors. *ACS Nano*, **2017**, 11, 2724-2733	16.7	78
23	High Toughness in Ultralow Density Graphene Oxide Foam. *Advanced Materials Interfaces*, **2017**, 4, 1700030	4.6	15
22	Lithium Batteries with Nearly Maximum Metal Storage. *ACS Nano*, **2017**, 11, 6362-6369	16.7	154
21	Three-Dimensional Printed Graphene Foams. *ACS Nano*, **2017**, 11, 6860-6867	16.7	133
20	Ultrafast Charging High Capacity Asphalt-Lithium Metal Batteries. *ACS Nano*, **2017**, 11, 10761-10767	16.7	70
19	Germanium on seamless graphene carbon nanotube hybrids for lithium ion anodes. *Carbon*, **2017**, 123, 433-439	10.4	26
18	Lightweight Hexagonal Boron Nitride Foam for CO Absorption. *ACS Nano*, **2017**, 11, 8944-8952	16.7	42
17	Silicon Nanowires and Lithium Cobalt Oxide Nanowires in Graphene Nanoribbon Papers for Full Lithium Ion Battery. *Advanced Energy Materials*, **2016**, 6, 1600918	21.8	68
16	Water based, solution-processable, transparent and flexible graphene oxide composite as electrodes in organic solar cell application. *Journal Physics D: Applied Physics*, **2016**, 49, 105106	3	23
15	Flexible, Transparent and Thin Films of Carbon Nanomaterials as Electrodes for Electrochemical Applications. *Electrochimica Acta*, **2016**, 197, 200-209	6.7	61
14	The total chemical synthesis of polymer/graphene nanocomposite films. *Chemical Communications*, **2016**, 52, 1629-32	5.8	25
13	Graphene chemically synthesized from benzene at liquid□liquid interfaces. *Carbon*, **2015**, 93, 924-932	10.4	24
12	Carbon nanotube/polyaniline nanocomposites: Electronic structure, doping level and morphology investigations. *Synthetic Metals*, **2015**, 203, 16-21	3.6	27
11	Electrical Properties of Self-Assembled Films of Polyaniline/Carbon Nanotubes Composites. *Journal of Physical Chemistry C*, **2014**, 118, 24811-24818	3.8	24
10	Synthesis and Characterization of Carboxyl-Substituted Polyanilines Doped with Halogenated Acids: Combining Conductivity with Solubility. *Journal of the Brazilian Chemical Society*, **2014**,	1.5	3

9	Interactions of iron-oxide filled carbon nanotubes with gas molecules. *Physical Chemistry Chemical Physics*, **2013**, 15, 14340-6	3.6	2
8	Investigation of carbon nanotube/polyaniline nanocomposite thin films produced by interfacial polymerization through electron desorption. *Journal of Molecular Structure*, **2013**, 1037, 93-98	3.4	12
7	ITO-Free and Flexible Organic Photovoltaic Device Based on High Transparent and Conductive Polyaniline/Carbon Nanotube Thin Films. *Advanced Functional Materials*, **2013**, 23, 1490-1499	15.6	148
6	Tri-layer graphene films produced by mechanochemical exfoliation of graphite. *Carbon*, **2013**, 57, 410-415	10.4	42
5	Resonant Raman spectroscopy and spectroelectrochemistry characterization of carbon nanotubes/polyaniline thin film obtained through interfacial polymerization. *Journal of Raman Spectroscopy*, **2012**, 43, 1094-1100	2.3	60
4	Self-assembled films of multi-wall carbon nanotubes used in gas sensors to increase the sensitivity limit for oxygen detection. *Carbon*, **2012**, 50, 1953-1958	10.4	48
3	Transparent and conductive thin films of graphene/polyaniline nanocomposites prepared through interfacial polymerization. *Chemical Communications*, **2011**, 47, 2592-4	5.8	138
2	One-Pot Synthesis and Processing of Transparent, Conducting, and Freestanding Carbon Nanotubes/Polyaniline Composite Films. *Chemistry of Materials*, **2010**, 22, 5222-5234	9.6	198
1	Dodecanethiol-Stabilized Platinum Nanoparticles Obtained by a Two-Phase Method: Synthesis, Characterization, Mechanism of Formation, and Electrocatalytic Properties. *Chemistry of Materials*, **2010**, 22, 360-370	9.6	62