

# Rodrigo Villegas Salvatierra

## List of Publications by Year in descending order

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44  
papers

2,786  
citations

172207

29  
h-index

253896

43  
g-index

44  
all docs

44  
docs citations

44  
times ranked

4780  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gram-scale bottom-up flash graphene synthesis. <i>Nature</i> , 2020, 577, 647-651.	13.7	438
2	One-Pot Synthesis and Processing of Transparent, Conducting, and Freestanding Carbon Nanotubes/Polyaniline Composite Films. <i>Chemistry of Materials</i> , 2010, 22, 5222-5234.	3.2	215
3	Lithium Batteries with Nearly Maximum Metal Storage. <i>ACS Nano</i> , 2017, 11, 6362-6369.	7.3	180
4	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.	7.8	174
5	Three-Dimensional Printed Graphene Foams. <i>ACS Nano</i> , 2017, 11, 6860-6867.	7.3	172
6	Transparent and conductive thin films of graphene/polyaniline nanocomposites prepared through interfacial polymerization. <i>Chemical Communications</i> , 2011, 47, 2592-2594.	2.2	155
7	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.	4.0	136
8	Laser-Induced Silicon Oxide for Anode-Free Lithium Metal Batteries. <i>Advanced Materials</i> , 2020, 32, e2002850.	11.1	92
9	Graphene Carbon Nanotube Carpets Grown Using Binary Catalysts for High-Performance Lithium-Ion Capacitors. <i>ACS Nano</i> , 2017, 11, 2724-2733.	7.3	91
10	Silicon Nanowires and Lithium Cobalt Oxide Nanowires in Graphene Nanoribbon Papers for Full Lithium Ion Battery. <i>Advanced Energy Materials</i> , 2016, 6, 1600918.	10.2	80
11	Ultrafast Charging High Capacity Asphalt-Free Lithium Metal Batteries. <i>ACS Nano</i> , 2017, 11, 10761-10767.	7.3	80
12	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.	1.2	73
13	Suppressing Li Metal Dendrites Through a Solid Li-Ion Backup Layer. <i>Advanced Materials</i> , 2018, 30, e1803869.	11.1	70
14	Flexible, Transparent and Thin Films of Carbon Nanomaterials as Electrodes for Electrochemical Applications. <i>Electrochimica Acta</i> , 2016, 197, 200-209.	2.6	67
15	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.	3.2	64
16	Lightweight Hexagonal Boron Nitride Foam for CO <sub>2</sub> Absorption. <i>ACS Nano</i> , 2017, 11, 8944-8952.	7.3	56
17	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.	5.4	51
18	Tri-layer graphene films produced by mechanochemical exfoliation of graphite. <i>Carbon</i> , 2013, 57, 410-415.	5.4	46

#	ARTICLE	IF	CITATIONS
19	Three-Dimensional Rebar Graphene. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 7376-7384.	4.0	46
20	Detecting Li Dendrites in a Two-€Electrode Battery System. <i>Advanced Materials</i> , 2019, 31, e1807405.	11.1	38
21	Hybrid MoS <sub>2</sub> /h-BN Nanofillers As Synergic Heat Dissipation and Reinforcement Additives in Epoxy Nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 24485-24492.	4.0	38
22	Ultra-Stiff Graphene Foams as Three-Dimensional Conductive Fillers for Epoxy Resin. <i>ACS Nano</i> , 2018, 12, 11219-11228.	7.3	37
23	What Can be Expected from ‘‘Anode-Free’’ Lithium Metal Batteries?. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000110.	2.8	36
24	Germanium on seamless graphene carbon nanotube hybrids for lithium ion anodes. <i>Carbon</i> , 2017, 123, 433-439.	5.4	35
25	Crumpled Graphene Decorated with Manganese Ferrite Nanoparticles for Hydrogen Peroxide Sensing and Electrochemical Supercapacitors. <i>ACS Applied Nano Materials</i> , 2020, 3, 4859-4869.	2.4	35
26	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.	1.3	33
27	The total chemical synthesis of polymer/graphene nanocomposite films. <i>Chemical Communications</i> , 2016, 52, 1629-1632.	2.2	33
28	Top-down synthesis of graphene nanoribbons using different sources of carbon nanotubes. <i>Carbon</i> , 2020, 158, 615-623.	5.4	33
29	Carbon nanotube/polyaniline nanocomposites: Electronic structure, doping level and morphology investigations. <i>Synthetic Metals</i> , 2015, 203, 16-21.	2.1	32
30	Electrical Properties of Self-Assembled Films of Polyaniline/Carbon Nanotubes Composites. <i>Journal of Physical Chemistry C</i> , 2014, 118, 24811-24818.	1.5	29
31	Graphene chemically synthesized from benzene at liquid-‘‘liquid interfaces. <i>Carbon</i> , 2015, 93, 924-932.	5.4	27
32	One-step synthesis of crumpled graphene fully decorated by copper-based nanoparticles: Application in H <sub>2</sub> O <sub>2</sub> sensing. <i>Sensors and Actuators B: Chemical</i> , 2022, 360, 131649.	4.0	24
33	High Toughness in Ultralow Density Graphene Oxide Foam. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700030.	1.9	20
34	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.	1.8	12
35	Tip-Sonicated Red Phosphorus-Graphene Nanoribbon Composite for Full Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 38936-38943.	4.0	11
36	Achieving Self-€Stiffening and Laser Healing by Interconnecting Graphene Oxide Sheets with Amine-€Functionalized Ovalbumin. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800932.	1.9	5

#	ARTICLE	IF	CITATIONS
37	W Clusters <i>In Situ</i> Assisted Synthesis of Layered Carbon Nanotube Arrays on Graphene Achieving High-Rate Performance. ACS Applied Materials & Interfaces, 2021, 13, 19117-19127.	4.0	5
38	Less is more. Nature Nanotechnology, 2019, 14, 500-501.	15.6	4
39	Synthesis and Characterization of Carboxyl-Substituted Polyanilines Doped with Halogenated Acids: Combining Conductivity with Solubility. Journal of the Brazilian Chemical Society, 2014, , .	0.6	4
40	Strain-controlled optical transmittance tuning of three-dimensional carbon nanotube architectures. Journal of Materials Chemistry C, 2019, 7, 1927-1933.	2.7	3
41	Interactions of iron-oxide filled carbon nanotubes with gas molecules. Physical Chemistry Chemical Physics, 2013, 15, 14340.	1.3	2
42	Mechanical Properties of Ultralow Density Graphene Oxide/Polydimethylsiloxane Foams. MRS Advances, 2018, 3, 61-66.	0.5	2
43	In Situ Internal Strengthened Carbon Nanotube Carpets on Graphene for Anti-Icing Application. ACS Applied Nano Materials, 2021, 4, 10952-10959.	2.4	2
44	Advances in nanomaterials for sulfurized carbon cathodes. , 2022, , 241-270.		0