Alberto Ansaldo

List of Publications by Year
in descending order

72 papers	2,535 citations	186265 28 h-index	197818 49 g-index
72 all docs	72 docs citations	72 times ranked	4529 citing authors

#	Article	IF	Citations
1	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
2	From scaled-up production of silicon-graphene nanocomposite to the realization of an ultra-stable full-cell Li-ion battery. 2D Materials, 2021, 8, 035014.	4.4	15
3	Nitrogen-doped graphene based triboelectric nanogenerators. Nano Energy, 2021, 87, 106173.	16.0	30
4	Electrode selection rules for enhancing the performance of triboelectric nanogenerators and the role of few-layers graphene. Nano Energy, 2020, 76, 104989.	16.0	28
5	Extending the Colloidal Transition Metal Dichalcogenide Library to ReS₂ Nanosheets for Application in Gas Sensing and Electrocatalysis. Small, 2019, 15, e1904670.	10.0	38
6	Silicon Few-Layer Graphene Nanocomposite as High-Capacity and High-Rate Anode in Lithium-Ion Batteries. ACS Applied Energy Materials, 2019, 2, 1793-1802.	5.1	26
7	Accurate motor mapping in awake common marmosets using micro-electrocorticographical stimulation and stochastic threshold estimation. Journal of Neural Engineering, 2018, 15, 036019.	3.5	5
8	Engineered MoSe₂â€Based Heterostructures for Efficient Electrochemical Hydrogen Evolution Reaction. Advanced Energy Materials, 2018, 8, 1703212.	19.5	152
9	Nitrogen-Doped Single-Walled Carbon Nanohorns as a Cost-Effective Carbon Host toward High-Performance Lithiumâ€"Sulfur Batteries. ACS Applied Materials & Interfaces, 2018, 10, 5551-5559.	8.0	57
10	Toward Pt-Free Anion-Exchange Membrane Fuel Cells: Feâ€"Sn Carbon Nitrideâ€"Graphene Coreâ€"Shell Electrocatalysts for the Oxygen Reduction Reaction. Chemistry of Materials, 2018, 30, 2651-2659.	6.7	44
11	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
12	Carbon nanotubes-bridged molybdenum trioxide nanosheets as high performance anode for lithium ion batteries. 2D Materials, 2018, 5, 015024.	4.4	21
13	Hierarchical oxygen reduction reaction electrocatalysts based on FeSn0.5 species embedded in carbon nitride-graphene based supports. Electrochimica Acta, 2018, 280, 149-162.	5.2	22
14	High-yield production of 2D crystals by wet-jet milling. Materials Horizons, 2018, 5, 890-904.	12.2	139
15	Dopedâ€MoSe₂ Nanoflakes/3d Metal Oxideâ€"Hydr(Oxy)Oxides Hybrid Catalysts for pHâ€Universal Electrochemical Hydrogen Evolution Reaction. Advanced Energy Materials, 2018, 8, 1801764.	19.5	67
16	Size-Tuning of WSe₂ Flakes for High Efficiency Inverted Organic Solar Cells. ACS Nano, 2017, 11, 3517-3531.	14.6	90
17	Highâ€Power Grapheneâ€"Carbon Nanotube Hybrid Supercapacitors. ChemNanoMat, 2017, 3, 436-446.	2.8	39
18	Grapheneâ€Based Electron Transport Layers in Perovskite Solar Cells: A Stepâ€Up for an Efficient Carrier Collection. Advanced Energy Materials, 2017, 7, 1701349.	19.5	85

#	Article	IF	Citations
19	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
20	Few-layer graphene improves silicon performance in Li-ion battery anodes. Journal of Materials Chemistry A, 2017, 5, 19306-19315.	10.3	54
21	Cortical control of objectâ€specific grasp relies on adjustments of both activity and effective connectivity: a common marmoset study. Journal of Physiology, 2017, 595, 7203-7221.	2.9	27
22	ITO nanoparticles break optical transparency/high-areal capacitance trade-off for advanced aqueous supercapacitors. Journal of Materials Chemistry A, 2017, 5, 25177-25186.	10.3	26
23	Independent Component Decomposition of Human Somatosensory Evoked Potentials Recorded by Micro-Electrocorticography. International Journal of Neural Systems, 2017, 27, 1650052.	5.2	15
24	Rapid Identification of Cortical Motor Areas in Rodents by High-Frequency Automatic Cortical Stimulation and Novel Motor Threshold Algorithm. Frontiers in Neuroscience, 2017, 11, 580.	2.8	8
25	Boosting Perovskite Solar Cells Performance and Stability through Doping a Polyâ€3(hexylthiophene) Hole Transporting Material with Organic Functionalized Carbon Nanostructures. Advanced Functional Materials, 2016, 26, 7443-7453.	14.9	86
26	Relevance of LiPF₆ as Etching Agent of LiMnPO₄ Colloidal Nanocrystals for High Rate Performing Li-ion Battery Cathodes. ACS Applied Materials & Interfaces, 2016, 8, 4069-4075.	8.0	20
27	Significant strain and force improvements of single-walled carbon nanotube actuator: A metal chalcogenides approach. Sensors and Actuators B: Chemical, 2016, 230, 673-683.	7.8	14
28	Binder-free graphene as an advanced anode for lithium batteries. Journal of Materials Chemistry A, 2016, 4, 6886-6895.	10.3	79
29	The electrolyte layer composition: A key element for improving the performance of carbon nanotube actuator. Sensors and Actuators B: Chemical, 2016, 222, 1073-1082.	7.8	3
30	Nanostructured microsphere coated with living cells and tethered with low-stiffness wire: A possible solution to brain tissue reactions. , 2015, , .		4
31	Poly(ionic liquid)-carbon nanotubes self-supported, highly electroconductive composites and their application in electroactive devices. Composites Science and Technology, 2015, 117, 364-370.	7.8	11
32	Cross-linked carbon nanotubes buckygel actuators: an in-depth study. Proceedings of SPIE, 2015, , .	0.8	0
33	Parylene-Coated Ionic Liquidâ€"Carbon Nanotube Actuators for User-Safe Haptic Devices. ACS Applied Materials & Interfaces, 2015, 7, 15542-15550.	8.0	16
34	A Compact and Autoclavable System for Acute Extracellular Neural Recording and Brain Pressure Monitoring for Humans. IEEE Transactions on Biomedical Circuits and Systems, 2015, 9, 50-59.	4.0	2
35	Ink-jet printing of graphene for flexible electronics: An environmentally-friendly approach. Solid State Communications, 2015, 224, 53-63.	1.9	187
36	Parylene coated carbon nanotube actuators for tactile stimulation. , 2015, , .		3

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37	PEDOT-CNT-Coated Low-Impedance, Ultra-Flexible, and Brain-Conformable Micro-ECoG Arrays. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2015, 23, 342-350.	4.9	83
38	Smaller, softer, lower-impedance electrodes for human neuroprosthesis: a pragmatic approach. Frontiers in Neuroengineering, 2014, 7, 8.	4.8	66
39	Bucky gel actuators optimization towards haptic applications. Proceedings of SPIE, 2014, , .	0.8	2
40	Germanium Nanocrystals-MWCNTs Composites as Anode Materials for Lithium Ion Batteries. ECS Transactions, 2014, 62, 19-24.	0.5	7
41	Porous Silicon as Nanostructured Anode Material for Lithium Ion Batteries. ECS Transactions, 2014, 62, 25-34.	0.5	2
42	Etched Colloidal LiFePO4 Nanoplatelets toward High-Rate Capable Li-Ion Battery Electrodes. Nano Letters, 2014, 14, 6828-6835.	9.1	53
43	Carbon nanotubes plastic actuator: Towards lightweight, low-voltage haptic devices. , 2014, , .		0
44	Redox Centers Evolution in Phospho-Olivine Type (LiFe_{0.5}Mn_{0.5}) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td	9.1	56
45	Ultra-flexible and brain-conformable micro-electrocorticography device with low impedance PEDOT-carbon nanotube coated microelectrodes. , 2013, , .		8
46	Piezoelectric Polymer Transducer Arrays for Flexible Tactile Sensors. IEEE Sensors Journal, 2013, 13, 4022-4029.	4.7	106
47	Biologically Compatible Neural Interface To Safely Couple Nanocoated Electrodes to the Surface of the Brain. ACS Nano, 2013, 7, 3887-3895.	14.6	48
48	Actuators based on intrinsic conductive polymers/carbon nanoparticles nanocomposites. , 2013, , .		1
49	Improving dry carbon nanotube actuators by chemical modifications, material hybridization, and proper engineering. Proceedings of SPIE, 2013, , .	0.8	0
50	Strategies for tuning carbon nanotube plastic actuator performance through material hybridization and the thickness effect: a proof of principle. Smart Materials and Structures, 2013, 22, 104003.	3.5	1
51	Piezoelectric polymer transducer arrays for flexible tactile sensors. , 2012, , .		11
52	Geometry dependent performance of bucky gel actuators: Increasing operating frequency by miniaturization. Physica Status Solidi (B): Basic Research, 2012, 249, 2361-2364.	1.5	4
53	Polymer-Based Photocatalytic Hydrogen Generation. Journal of Physical Chemistry C, 2012, 116, 10944-10949.	3.1	65
54	Increasing the maximum strain and efficiency of bucky gel actuators by pyrrole oxidative polymerization on carbon nanotubes dispersed in an ionic liquid. Carbon, 2012, 50, 4506-4511.	10.3	15

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55	Pyrolysis of waste polypropylene for the synthesis of carbon nanotubes. Journal of Analytical and Applied Pyrolysis, 2012, 94, 91-98.	5.5	118
56	Improvement of tactile capacitive sensors of the humanoid robot iCub's fingertips. , 2011, , .		1
57	Superior Electrochemical Performance of Carbon Nanotubes Directly Grown on Sharp Microelectrodes. ACS Nano, 2011, 5, 2206-2214.	14.6	70
58	Cross-linking super-growth carbon nanotubes to boost the performance of bucky gel actuators. Carbon, 2011, 49, 2253-2257.	10.3	32
59	Mechanics and actuation properties of bucky gel-based electroactive polymers. Sensors and Actuators B: Chemical, 2011, 156, 949-953.	7.8	33
60	Carbon nanotube composite coating of neural microelectrodes preferentially improves the multiunit signal-to-noise ratio. Journal of Neural Engineering, 2011, 8, 066013.	3.5	79
61	Linear and bending actuation of bucky gel. Proceedings of SPIE, 2011, , .	0.8	0
62	Performance improvement in bucky gel actuators by chemical modifications of carbon nanotubes. Physica Status Solidi - Rapid Research Letters, 2010, 4, 64-66.	2.4	10
63	Benchmarking bucky gel actuators: Chemically modified commercial carbon nanotubes versus super-growth carbon nanotubes. Physica Status Solidi (B): Basic Research, 2010, 247, 3055-3058.	1.5	7
64	Chemical vapour deposited carbon nanotube coated microelectrodes for intracortical neural recording. Physica Status Solidi (B): Basic Research, 2010, 247, 2703-2707.	1.5	17
65	Singleâ€walled carbon nanotube networks growth optimization. Physica Status Solidi (B): Basic Research, 2009, 246, 2473-2476.	1.5	0
66	Exâ€situ synthesized nickel nanoparticles for multiâ€walled carbon nanotube growth on high aspect ratio substrates. Physica Status Solidi (B): Basic Research, 2008, 245, 1923-1926.	1.5	2
67	Direct transfer of CVD-grown transparent SWCNT networks from growth substrate to polymer. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 2430-2433.	2.7	6
68	A study of the effect of different catalysts for the efficient CVD growth of carbon nanotubes on silicon substrates. Physica E: Low-Dimensional Systems and Nanostructures, 2007, 37, 6-10.	2.7	27
69	Catalytic chemical vapour deposition growth of single wall carbon nanotube films on different substrates for transparent electronic devices. Physica Status Solidi (B): Basic Research, 2007, 244, 3935-3938.	1.5	3
70	Hybrid Nanostructures: Organic Interconnections and Device Applications. , 2006, , .		0
71	CVD synthesis of single wall carbon nanotubes devoted to ULSI electronic applications. Physica Status Solidi (B): Basic Research, 2006, 243, 3077-3081.	1.5	4
72	Investigating Schottky Barriers Effects in Carbon Nanotube FETs. AIP Conference Proceedings, 2005, , .	0.4	1