

# Noa Lachman

## List of Publications by Year in descending order

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30  
papers

1,047  
citations

516710

16  
h-index

501196

28  
g-index

30  
all docs

30  
docs citations

30  
times ranked

1627  
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlation between interfacial molecular structure and mechanics in CNT/epoxy nano-composites. Composites Part A: Applied Science and Manufacturing, 2010, 41, 1093-1098.	7.6	138
2	Advanced asymmetric supercapacitor based on conducting polymer and aligned carbon nanotubes with controlled nanomorphology. Nano Energy, 2014, 9, 176-185.	16.0	93
3	Fracture behavior of nanotube-polymer composites: Insights on surface roughness and failure mechanism. Composites Science and Technology, 2013, 87, 157-163.	7.8	91
4	Hierarchical carbon nanotube carbon fiber unidirectional composites with preserved tensile and interfacial properties. Composites Science and Technology, 2015, 117, 139-145.	7.8	83
5	Raman Response of Carbon Nanotube/PVA Fibers under Strain. Journal of Physical Chemistry C, 2009, 113, 4751-4754.	3.1	71
6	Impact of carbon nanotube length on electron transport in aligned carbon nanotube networks. Applied Physics Letters, 2015, 106, .	3.3	67
7	The Evolution of Carbon Nanotube Network Structure in Unidirectional Nanocomposites Resolved by Quantitative Electron Tomography. ACS Nano, 2015, 9, 6050-6058.	14.6	62
8	A high performance hybrid asymmetric supercapacitor via nano-scale morphology control of graphene, conducting polymer, and carbon nanotube electrodes. Journal of Materials Chemistry A, 2014, 2, 9964-9969.	10.3	57
9	Room Temperature Resistive Volatile Organic Compound Sensing Materials Based on a Hybrid Structure of Vertically Aligned Carbon Nanotubes and Conformal oCVD/iCVD Polymer Coatings. ACS Sensors, 2016, 1, 374-383.	7.8	47
10	Application of continuously-monitored single fiber fragmentation tests to carbon nanotube/carbon microfiber hybrid composites. Composites Science and Technology, 2012, 72, 1711-1717.	7.8	41
11	Interfacial load transfer in carbon nanotube/ceramic microfiber hybrid polymer composites. Composites Science and Technology, 2012, 72, 1416-1422.	7.8	36
12	Hybrid supercapacitor materials from poly(3,4-ethylenedioxythiophene) conformally coated aligned carbon nanotubes. Electrochimica Acta, 2013, 112, 522-528.	5.2	36
13	Electronic and mechanical degradation of oxidized CNTs. Carbon, 2012, 50, 1734-1739.	10.3	35
14	Tailoring Thickness of Conformal Conducting Polymer Decorated Aligned Carbon Nanotube Electrodes for Energy Storage. Advanced Materials Interfaces, 2014, 1, 1400076.	3.7	28
15	Fracture behavior of carbon nanotube/carbon microfiber hybrid polymer composites. Journal of Materials Science, 2013, 48, 5590-5595.	3.7	25
16	Exohedral Physisorption of Ambient Moisture Scales Non-monotonically with Fiber Proximity in Aligned Carbon Nanotube Arrays. ACS Nano, 2014, 8, 4591-4599.	14.6	23
17	Electrothermal Icing protection of Aerosurfaces Using Conductive Polymer Nanocomposites. , 2013, , .		18
18	Aligned carbon nanotube morphogenesis predicts physical properties of their polymer nanocomposites. Nanoscale, 2019, 11, 16327-16335.	5.6	16

#	ARTICLE	IF	CITATIONS
19	Strong, tough and bio-degradable polymer-based 3D-ink for fused filament fabrication (FFF) using WS2 nanotubes. <i>Scientific Reports</i> , 2020, 10, 8892.	3.3	16
20	Nanocomposite of Poly(L-Lactic Acid) with Inorganic Nanotubes of WS2. <i>Lubricants</i> , 2019, 7, 28.	2.9	13
21	Synthesis of polymer bead nano-necklaces on aligned carbon nanotube scaffolds. <i>Nanotechnology</i> , 2017, 28, 24LT01.	2.6	10
22	Effect of scale and surface chemistry on the mechanical properties of carbon nanotubes-based composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 957-962.	2.1	9
23	Preserving Softness and Elastic Recovery in Silicone-Based Stretchable Electrodes Using Carbon Nanotubes. <i>Polymers</i> , 2020, 12, 1345.	4.5	7
24	Mechanical and Compositional Implications of Gallium Ion Milling on Epoxy Resin. <i>Polymers</i> , 2021, 13, 2640.	4.5	6
25	Sensitivity of Carbon Nanotubes to the Storage of Stress in Polymers. <i>Macromolecular Rapid Communications</i> , 2011, 32, 1993-1997.	3.9	5
26	Modeling the Electromagnetic Scattering Characteristics of Carbon Nanotube Composites Characterized by 3-D Tomographic Transmission Electron Microscopy. <i>IEEE Open Journal of Antennas and Propagation</i> , 2020, 1, 142-158.	3.7	5
27	Influence of service fluids on carbon-carbon aircrafts brake disks oxidation. <i>Engineering Failure Analysis</i> , 2021, 125, 105403.	4.0	3
28	Development of Quality Control Methods for Dispersibility and Stability of Single-Wall Carbon Nanotubes in an Aqueous Medium. <i>Nanomaterials</i> , 2021, 11, 2618.	4.1	3
29	Alumina Thin-Film Deposition on Rough Topographies Comprising Vertically Aligned Carbon Nanotubes: Implications for Membranes, Sensors, and Electrodes. <i>ACS Applied Nano Materials</i> , 2021, 4, 322-330.	5.0	2
30	Electromagnetic scattering from multiple Carbon Nanotubes with experimentally determined shapes and distributions. , 2015, , .		1