Virginia A Davis

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68 papers	3,526 citations	23 h-index	59 g-index
81 ext. papers	3,884 ext. citations	5.9 avg, IF	5.23 L-index

#	Paper	IF	Citations
68	Macroscopic, neat, single-walled carbon nanotube fibers. *Science*, **2004**, 305, 1447-50	33.3	708
67	True solutions of single-walled carbon nanotubes for assembly into macroscopic materials. *Nature Nanotechnology*, **2009**, 4, 830-4	28.7	417
66	Phase Behavior and Rheology of SWNTs in Superacids. *Macromolecules*, **2004**, 37, 154-160	5.5	302
65	Rheology and Phase Behavior of Lyotropic Cellulose Nanocrystal Suspensions. *Macromolecules*, **2011**, 44, 8990-8998	5.5	243
64	Dissolution of Pristine Single Walled Carbon Nanotubes in Superacids by Direct Protonation. *Journal of Physical Chemistry B*, **2004**, 108, 8794-8798	3.4	240
63	Strong antimicrobial coatings: single-walled carbon nanotubes armored with biopolymers. *Nano Letters*, **2008**, 8, 1896-901	11.5	171
62	Single wall carbon nanotube fibers extruded from super-acid suspensions: Preferred orientation, electrical, and thermal transport. *Journal of Applied Physics*, **2004**, 95, 649-655	2.5	157
61	3D Printing of Additive-Free 2D TiCT (MXene) Ink for Fabrication of Micro-Supercapacitors with Ultra-High Energy Densities. *ACS Nano*, **2020**, 14, 640-650	16.7	142
60	Isotropic-nematic phase transition of single-walled carbon nanotubes in strong acids. *Journal of the American Chemical Society*, **2006**, 128, 591-5	16.4	111
59	Enhanced stability of enzyme organophosphate hydrolase interfaced on the carbon nanotubes. *Colloids and Surfaces B: Biointerfaces*, **2010**, 77, 69-74	6	110
58	Amorphous-state characterization of efavirenz--polymer hot-melt extrusion systems for dissolution enhancement. *Journal of Pharmaceutical Sciences*, **2012**, 101, 3456-64	3.9	80
57	Simple Length Determination of Single-Walled Carbon Nanotubes by Viscosity Measurements in Dilute Suspensions. *Macromolecules*, **2007**, 40, 4043-4047	5.5	72
56	Methylene green electrodeposited on SWNTs-based "bucky" papers for NADH and l-malate oxidation. *ACS Applied Materials & Interfaces*, **2011**, 3, 2402-9	9.5	62
55	Dispersion and Rheology of Multiwalled Carbon Nanotubes in Unsaturated Polyester Resin. *Macromolecules*, **2013**, 46, 1642-1650	5.5	61
54	Transparent and Homogenous Cellulose Nanocrystal/Lignin UV-Protection Films. *ACS Omega*, **2018**, 3, 10679-10691	3.9	60
53	Lysozyme Dispersed Single-Walled Carbon Nanotubes: Interaction and Activity. *Journal of Physical Chemistry C*, **2012**, 116, 10341-10348	3.8	52
52	Cholesteric and nematic liquid crystalline phase behavior of double-stranded DNA stabilized single-walled carbon nanotube dispersions. *ACS Nano*, **2011**, 5, 1450-8	16.7	50

51	Viscoelasticity and Shear Stability of Single-Walled Carbon Nanotube/Unsaturated Polyester Resin Dispersions. *Macromolecules*, **2009**, 42, 6624-6632	5.5	48
50	Effects of liquid crystalline and shear alignment on the optical properties of cellulose nanocrystal films. *Cellulose*, **2017**, 24, 705-716	5.5	38
49	Renewable nanocomposite layer-by-layer assembled catalytic interfaces for biosensing applications. *Langmuir*, **2010**, 26, 19114-9	4	37
48	Liquid crystalline assembly of nanocylinders. *Journal of Materials Research*, **2011**, 26, 140-153	2.5	37
47	Lyotropic liquid crystalline self-assembly in dispersions of silver nanowires and nanoparticles. *Langmuir*, **2010**, 26, 11176-83	4	36
46	Photonic Properties and Applications of Cellulose Nanocrystal Films with Planar Anchoring. *ACS Applied Nano Materials*, **2018**, 1, 2175-2183	5.6	30
45	Dispersion State and Fiber Toughness: Antibacterial Lysozyme-Single Walled Carbon Nanotubes. *Advanced Functional Materials*, **2013**, 23, 6082-6090	15.6	22
44	New insights into the flow and microstructural relaxation behavior of biphasic cellulose nanocrystal dispersions from RheoSANS. *Soft Matter*, **2017**, 13, 8451-8462	3.6	21
43	Liquid crystalline phase behavior of silica nanorods in dimethyl sulfoxide and water. *Langmuir*, **2014** , 30, 4806-13	4	21
42	Rotational and translational diffusivities of germanium nanowires. *Rheologica Acta*, **2009**, 48, 589-596	2.3	17
41	Rheology and Shear-Induced Textures of Silver Nanowire Lyotropic Liquid Crystals. *Journal of Nanomaterials*, **2015**, 2015, 1-9	3.2	15
40	Influence of initial mixing methods on melt-extruded single-walled carbon nanotube□polypropylene nanocomposites. *Polymer Engineering and Science*, **2010**, 50, 1831-1842	2.3	13
39	A novel nano-nonwoven fabric with three-dimensionally dispersed nanofibers: entrapment of carbon nanofibers within nonwovens using the wet-lay process. *Nanotechnology*, **2012**, 23, 185601	3.4	12
38	Orientation Relaxation Dynamics in Cellulose Nanocrystal Dispersions in the Chiral Liquid Crystalline Phase. *Langmuir*, **2018**, 34, 13274-13282	4	11
37	Free-Standing Films from Aqueous Dispersions of Lysozyme, Single-Walled Carbon Nanotubes, and Polyvinyl Alcohol. *ACS Macro Letters*, **2014**, 3, 77-79	6.6	9
36	Viscoelasticity of Single-Walled Carbon Nanotubes in Unsaturated Polyester Resin: Effects of Purity and Chirality Distribution. *Macromolecules*, **2015**, 48, 8641-8650	5.5	9
35	Electrochemical properties of interface formed by interlaced layers of DNA- and lysozyme-coated single-walled carbon nanotubes. *Electrochemistry Communications*, **2009**, 11, 1401-1404	5.1	9
34	Rheology of lyotropic cholesteric liquid crystal forming single-wall carbon nanotube dispersions stabilized by double-stranded DNA. *Rheologica Acta*, **2016**, 55, 717-725	2.3	8

33	Microelectromechanical Systems from Aligned Cellulose Nanocrystal Films. *ACS Applied Materials & Interfaces*, **2018**, 10, 24116-24123	9.5	8
32	Effects of Polymer Additives and Dispersion State on the Mechanical Properties of Cellulose Nanocrystal Films. *Macromolecular Materials and Engineering*, **2017**, 302, 1600351	3.9	7
31	Single-Walled Carbon Nanotube Dispersion in Tryptic Soy Broth. *ACS Macro Letters*, **2017**, 6, 1228-1231	6.6	6
30	Am I an engineer yet? Perceptions of engineering and identity among first year students. *European Journal of Engineering Education*, **2020**, 45, 214-231	1.5	6
29	In Situ polymerization functionalization of single-walled carbon nanotubes with polystyrene. *Journal of Polymer Science Part A*, **2013**, 51, 3716-3725	2.5	6
28	Comparison of Attachment and Antibacterial Activity of Covalent and Noncovalent Lysozyme-Functionalized Single-Walled Carbon Nanotubes. *ACS Omega*, **2020**, 5, 2254-2259	3.9	5
27	Concentration of lysozyme/single-walled carbon nanotube dispersions. *Colloids and Surfaces B: Biointerfaces*, **2016**, 139, 237-43	6	5
26	Solution-Based Fabrication of Carbon Nanotube Bumps for Flip-Chip Interconnects. *IEEE Nanotechnology Magazine*, **2014**, 13, 1118-1126	2.6	5
25	Direct and discriminative detection of organophosphate neurotoxins for food and agriculture products **2012**,		4
24	Chiral Structure Formation during Casting of Cellulose Nanocrystalline Films. *Langmuir*, **2020**, 36, 4975-4984	4	4
23	Overview of Nanotechnology in Military and Aerospace Applications **2017**, 133-176		3
22	Carbon Nanofiber Synthesis within 3-Dimensional Sintered Nickel Microfibrous Matrices: Optimization of Synthesis Conditions. *Journal of Nanotechnology*, **2012**, 2012, 1-14	3.5	3
21	Thermal properties of polypropylene nanocomposites: Effects of carbon nanomaterials and processing. *Polymer Engineering and Science*, **2011**, 51, 460-473	2.3	3
20	Substrate properties as controlling parameters in attached algal cultivation. *Applied Microbiology and Biotechnology*, **2021**, 105, 1823-1835	5.7	3
19	Phase Behavior of Acetylated Cellulose Nanocrystals and Origins of the Cross-Hatch Birefringent Texture. *Biomacromolecules*, **2018**, 19, 3435-3444	6.9	2
18	The Effects of Size and Shape Dispersity on the Phase Behavior of Nanomesogen Lyotropic Liquid Crystals. *Crystals*, **2020**, 10, 715	2.3	2
17	Effects of Non-covalent Functionalization and Initial Mixing Methods on SWNT/PP and SWNT/EVOH Composites. *ACS Omega*, **2021**, 6, 10618-10628	3.9	2
16	Heat Treatment of Buckypaper for Use in Volatile Organic Compounds Sampling. *Journal of Nanomaterials*, **2016**, 2016, 1-6	3.2	2

List of Publications

15	Microstructure and electrochemical properties of high performance graphene/manganese oxide hybrid electrodes.. *RSC Advances*, **2021**, 11, 31608-31620	3.7	2
14	Surface plasmon resonance properties of DC magnetron sputtered Ag nanoislands on ITO-glass and In2O3-PET substrates. *Electronics Letters*, **2014**, 50, 623-624	1.1	1
13	High-Throughput Nanomanufacturing via Spray Processes **2017**, 101-131		1
12	Manufacture of Multiscale Composites **2017**, 245-283		1
11	Getting Everyone to the Fair: Supporting Teachers in Broadening Participation in Science and Engineering Fairs. *Journal of Science Education and Technology*, **2021**, 30, 1-20	2.8	1
10	Correlations between rheological behavior and intrinsic properties of nanofibrillated cellulose from wood and soybean hulls with varying lignin content. *BioResources*, **2021**, 16, 4831-4845	1.3	1
9	Fabrication and Fatigue of Fiber-Reinforced Polymer Nanocomposites A Tool for Quality Control335-368		1
8	Rheological and Curing Properties of Unsaturated Polyester Resin Nanocomposites **2019**, 471-488		
7	Nanoclays **2017**, 369-393		
6	Novel Polymer Nanocomposite Ablative Technologies for Thermal Protection of Propulsion and Reentry Systems for Space Applications **2017**, 177-244		
5	The Effect of Melt Extrusion Process Parameters on Rotary-Evaporated Poly(propylene) Nanocomposites. *Macromolecular Materials and Engineering*, **2012**, 297, 864-874	3.9	
4	Nanotechnology EHS395-415		
3	Bioinspired Systems285-305		
2	Prediction of Carbon Nanotube Buckypaper Mechanical Properties with Integrated Physics-Based and Statistical Models307-333		
1	Nanocarbon Materials in Catalysis25-63		