Virginia A Davis

List of Publications by Year in Descending Order

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

#	Paper	IF	Citations
68	Getting Everyone to the Fair: Supporting Teachers in Broadening Participation in Science and Engineering Fairs. <i>Journal of Science Education and Technology</i> , 2021 , 30, 1-20	2.8	1
67	Effects of Non-covalent Functionalization and Initial Mixing Methods on SWNT/PP and SWNT/EVOH Composites. <i>ACS Omega</i> , 2021 , 6, 10618-10628	3.9	2
66	Correlations between rheological behavior and intrinsic properties of nanofibrillated cellulose from wood and soybean hulls with varying lignin content. <i>BioResources</i> , 2021 , 16, 4831-4845	1.3	1
65	Microstructure and electrochemical properties of high performance graphene/manganese oxide hybrid electrodes <i>RSC Advances</i> , 2021 , 11, 31608-31620	3.7	2
64	Substrate properties as controlling parameters in attached algal cultivation. <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 1823-1835	5.7	3
63	Comparison of Attachment and Antibacterial Activity of Covalent and Noncovalent Lysozyme-Functionalized Single-Walled Carbon Nanotubes. <i>ACS Omega</i> , 2020 , 5, 2254-2259	3.9	5
62	Am I an engineer yet? Perceptions of engineering and identity among first year students. <i>European Journal of Engineering Education</i> , 2020 , 45, 214-231	1.5	6
61	3D Printing of Additive-Free 2D TiCT (MXene) Ink for Fabrication of Micro-Supercapacitors with Ultra-High Energy Densities. <i>ACS Nano</i> , 2020 , 14, 640-650	16.7	142
60	The Effects of Size and Shape Dispersity on the Phase Behavior of Nanomesogen Lyotropic Liquid Crystals. <i>Crystals</i> , 2020 , 10, 715	2.3	2
59	Chiral Structure Formation during Casting of Cellulose Nanocrystalline Films. <i>Langmuir</i> , 2020 , 36, 4975-	4.984	4
58	Rheological and Curing Properties of Unsaturated Polyester Resin Nanocomposites 2019 , 471-488		
57	Photonic Properties and Applications of Cellulose Nanocrystal Films with Planar Anchoring. <i>ACS Applied Nano Materials</i> , 2018 , 1, 2175-2183	5.6	30
56	Phase Behavior of Acetylated Cellulose Nanocrystals and Origins of the Cross-Hatch Birefringent Texture. <i>Biomacromolecules</i> , 2018 , 19, 3435-3444	6.9	2
55	Orientation Relaxation Dynamics in Cellulose Nanocrystal Dispersions in the Chiral Liquid Crystalline Phase. <i>Langmuir</i> , 2018 , 34, 13274-13282	4	11
54	Transparent and Homogenous Cellulose Nanocrystal/Lignin UV-Protection Films. <i>ACS Omega</i> , 2018 , 3, 10679-10691	3.9	60
53	Microelectromechanical Systems from Aligned Cellulose Nanocrystal Films. <i>ACS Applied Materials & Amp; Interfaces</i> , 2018 , 10, 24116-24123	9.5	8
52	Effects of Polymer Additives and Dispersion State on the Mechanical Properties of Cellulose Nanocrystal Films. <i>Macromolecular Materials and Engineering</i> , 2017 , 302, 1600351	3.9	7

(2013-2017)

51	Effects of liquid crystalline and shear alignment on the optical properties of cellulose nanocrystal films. <i>Cellulose</i> , 2017 , 24, 705-716	5.5	38
50	New insights into the flow and microstructural relaxation behavior of biphasic cellulose nanocrystal dispersions from RheoSANS. <i>Soft Matter</i> , 2017 , 13, 8451-8462	3.6	21
49	Single-Walled Carbon Nanotube Dispersion in Tryptic Soy Broth. ACS Macro Letters, 2017, 6, 1228-1231	6.6	6
48	Nanoclays 2017 , 369-393		
47	High-Throughput Nanomanufacturing via Spray Processes 2017 , 101-131		1
46	Overview of Nanotechnology in Military and Aerospace Applications 2017 , 133-176		3
45	Novel Polymer Nanocomposite Ablative Technologies for Thermal Protection of Propulsion and Reentry Systems for Space Applications 2017 , 177-244		
44	Manufacture of Multiscale Composites 2017 , 245-283		1
43	Rheology of lyotropic cholesteric liquid crystal forming single-wall carbon nanotube dispersions stabilized by double-stranded DNA. <i>Rheologica Acta</i> , 2016 , 55, 717-725	2.3	8
42	Concentration of lysozyme/single-walled carbon nanotube dispersions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016 , 139, 237-43	6	5
41	Heat Treatment of Buckypaper for Use in Volatile Organic Compounds Sampling. <i>Journal of Nanomaterials</i> , 2016 , 2016, 1-6	3.2	2
40	Rheology and Shear-Induced Textures of Silver Nanowire Lyotropic Liquid Crystals. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-9	3.2	15
39	Viscoelasticity of Single-Walled Carbon Nanotubes in Unsaturated Polyester Resin: Effects of Purity and Chirality Distribution. <i>Macromolecules</i> , 2015 , 48, 8641-8650	5.5	9
38	Surface plasmon resonance properties of DC magnetron sputtered Ag nanoislands on ITO-glass and In2O3-PET substrates. <i>Electronics Letters</i> , 2014 , 50, 623-624	1.1	1
37	Free-Standing Films from Aqueous Dispersions of Lysozyme, Single-Walled Carbon Nanotubes, and Polyvinyl Alcohol. <i>ACS Macro Letters</i> , 2014 , 3, 77-79	6.6	9
36	Liquid crystalline phase behavior of silica nanorods in dimethyl sulfoxide and water. <i>Langmuir</i> , 2014 , 30, 4806-13	4	21
35	Solution-Based Fabrication of Carbon Nanotube Bumps for Flip-Chip Interconnects. <i>IEEE Nanotechnology Magazine</i> , 2014 , 13, 1118-1126	2.6	5
34	Dispersion State and Fiber Toughness: Antibacterial Lysozyme-Single Walled Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2013 , 23, 6082-6090	15.6	22

33	In Situ polymerization functionalization of single-walled carbon nanotubes with polystyrene. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 3716-3725	2.5	6
32	Dispersion and Rheology of Multiwalled Carbon Nanotubes in Unsaturated Polyester Resin. <i>Macromolecules</i> , 2013 , 46, 1642-1650	5.5	61
31	Lysozyme Dispersed Single-Walled Carbon Nanotubes: Interaction and Activity. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 10341-10348	3.8	52
30	A novel nano-nonwoven fabric with three-dimensionally dispersed nanofibers: entrapment of carbon nanofibers within nonwovens using the wet-lay process. <i>Nanotechnology</i> , 2012 , 23, 185601	3.4	12
29	Carbon Nanofiber Synthesis within 3-Dimensional Sintered Nickel Microfibrous Matrices: Optimization of Synthesis Conditions. <i>Journal of Nanotechnology</i> , 2012 , 2012, 1-14	3.5	3
28	Amorphous-state characterization of efavirenzpolymer hot-melt extrusion systems for dissolution enhancement. <i>Journal of Pharmaceutical Sciences</i> , 2012 , 101, 3456-64	3.9	80
27	The Effect of Melt Extrusion Process Parameters on Rotary-Evaporated Poly(propylene) Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2012 , 297, 864-874	3.9	
26	Direct and discriminative detection of organophosphate neurotoxins for food and agriculture products 2012 ,		4
25	Methylene green electrodeposited on SWNTs-based "bucky" papers for NADH and l-malate oxidation. ACS Applied Materials & Damp; Interfaces, 2011, 3, 2402-9	9.5	62
24	Rheology and Phase Behavior of Lyotropic Cellulose Nanocrystal Suspensions. <i>Macromolecules</i> , 2011 , 44, 8990-8998	5.5	243
24		5·5 2·3	243
	2011, 44, 8990-8998 Thermal properties of polypropylene nanocomposites: Effects of carbon nanomaterials and		3
23	2011, 44, 8990-8998 Thermal properties of polypropylene nanocomposites: Effects of carbon nanomaterials and processing. <i>Polymer Engineering and Science</i> , 2011, 51, 460-473 Cholesteric and nematic liquid crystalline phase behavior of double-stranded DNA stabilized	2.3	3
23	Thermal properties of polypropylene nanocomposites: Effects of carbon nanomaterials and processing. <i>Polymer Engineering and Science</i> , 2011 , 51, 460-473 Cholesteric and nematic liquid crystalline phase behavior of double-stranded DNA stabilized single-walled carbon nanotube dispersions. <i>ACS Nano</i> , 2011 , 5, 1450-8	2.3	3
23 22 21	Thermal properties of polypropylene nanocomposites: Effects of carbon nanomaterials and processing. <i>Polymer Engineering and Science</i> , 2011 , 51, 460-473 Cholesteric and nematic liquid crystalline phase behavior of double-stranded DNA stabilized single-walled carbon nanotube dispersions. <i>ACS Nano</i> , 2011 , 5, 1450-8 Liquid crystalline assembly of nanocylinders. <i>Journal of Materials Research</i> , 2011 , 26, 140-153 Lyotropic liquid crystalline self-assembly in dispersions of silver nanowires and nanoparticles.	2.3 16.7 2.5	3 50 37
23 22 21 20	Thermal properties of polypropylene nanocomposites: Effects of carbon nanomaterials and processing. <i>Polymer Engineering and Science</i> , 2011 , 51, 460-473 Cholesteric and nematic liquid crystalline phase behavior of double-stranded DNA stabilized single-walled carbon nanotube dispersions. <i>ACS Nano</i> , 2011 , 5, 1450-8 Liquid crystalline assembly of nanocylinders. <i>Journal of Materials Research</i> , 2011 , 26, 140-153 Lyotropic liquid crystalline self-assembly in dispersions of silver nanowires and nanoparticles. <i>Langmuir</i> , 2010 , 26, 11176-83 Renewable nanocomposite layer-by-layer assembled catalytic interfaces for biosensing	2.3 16.7 2.5	3503736
2322212019	Thermal properties of polypropylene nanocomposites: Effects of carbon nanomaterials and processing. <i>Polymer Engineering and Science</i> , 2011 , 51, 460-473 Cholesteric and nematic liquid crystalline phase behavior of double-stranded DNA stabilized single-walled carbon nanotube dispersions. <i>ACS Nano</i> , 2011 , 5, 1450-8 Liquid crystalline assembly of nanocylinders. <i>Journal of Materials Research</i> , 2011 , 26, 140-153 Lyotropic liquid crystalline self-assembly in dispersions of silver nanowires and nanoparticles. <i>Langmuir</i> , 2010 , 26, 11176-83 Renewable nanocomposite layer-by-layer assembled catalytic interfaces for biosensing applications. <i>Langmuir</i> , 2010 , 26, 19114-9 Enhanced stability of enzyme organophosphate hydrolase interfaced on the carbon nanotubes.	2.3 16.7 2.5 4	350373637

LIST OF PUBLICATIONS

15	True solutions of single-walled carbon nanotubes for assembly into macroscopic materials. <i>Nature Nanotechnology</i> , 2009 , 4, 830-4	28.7	417
14	Electrochemical properties of interface formed by interlaced layers of DNA- and lysozyme-coated single-walled carbon nanotubes. <i>Electrochemistry Communications</i> , 2009 , 11, 1401-1404	5.1	9
13	Viscoelasticity and Shear Stability of Single-Walled Carbon Nanotube/Unsaturated Polyester Resin Dispersions. <i>Macromolecules</i> , 2009 , 42, 6624-6632	5.5	48
12	Strong antimicrobial coatings: single-walled carbon nanotubes armored with biopolymers. <i>Nano Letters</i> , 2008 , 8, 1896-901	11.5	171
11	Simple Length Determination of Single-Walled Carbon Nanotubes by Viscosity Measurements in Dilute Suspensions. <i>Macromolecules</i> , 2007 , 40, 4043-4047	5.5	72
10	Isotropic-nematic phase transition of single-walled carbon nanotubes in strong acids. <i>Journal of the American Chemical Society</i> , 2006 , 128, 591-5	16.4	111
9	Phase Behavior and Rheology of SWNTs in Superacids. <i>Macromolecules</i> , 2004 , 37, 154-160	5.5	302
8	Macroscopic, neat, single-walled carbon nanotube fibers. <i>Science</i> , 2004 , 305, 1447-50	33.3	708
7	Single wall carbon nanotube fibers extruded from super-acid suspensions: Preferred orientation, electrical, and thermal transport. <i>Journal of Applied Physics</i> , 2004 , 95, 649-655	2.5	157
6	Dissolution of Pristine Single Walled Carbon Nanotubes in Superacids by Direct Protonation. Journal of Physical Chemistry B, 2004 , 108, 8794-8798	3.4	240
5	Nanotechnology EHS395-415		
4	Bioinspired Systems285-305		
3	Prediction of Carbon Nanotube Buckypaper Mechanical Properties with Integrated Physics-Based and Statistical Models307-333		
2	Nanocarbon Materials in Catalysis25-63		
1	Fabrication and Fatigue of Fiber-Reinforced Polymer Nanocomposites 🖪 Tool for Quality Control335-3	68	1