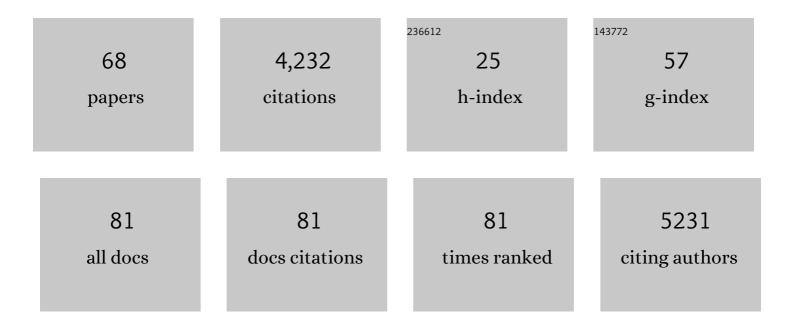
Virginia A Davis

List of Publications by Year in descending order

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VIDCINIA A DAVIS

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Dispersant Effects on Single-Walled Carbon Nanotube Antibacterial Activity. Molecules, 2022, 27, 1606. | 1.7 | 7 |
| 2 | Additive Manufacturing of Viscoelastic Polyacrylamide Substrates for Mechanosensing Studies. ACS Omega, 2022, 7, 24384-24395. | 1.6 | 2 |
| 3 | Microstructure and electrochemical properties of high performance graphene/manganese oxide hybrid electrodes. RSC Advances, 2021, 11, 31608-31620. | 1.7 | 3 |
| 4 | Substrate properties as controlling parameters in attached algal cultivation. Applied Microbiology and Biotechnology, 2021, 105, 1823-1835. | 1.7 | 9 |
| 5 | Getting Everyone to the Fair: Supporting Teachers in Broadening Participation in Science and Engineering Fairs. Journal of Science Education and Technology, 2021, 30, 658-677. | 2.4 | 3 |
| 6 | Effects of Non-covalent Functionalization and Initial Mixing Methods on SWNT/PP and SWNT/EVOH Composites. ACS Omega, 2021, 6, 10618-10628. | 1.6 | 4 |
| 7 | Correlations between rheological behavior and intrinsic properties of nanofibrillated cellulose from wood and soybean hulls with varying lignin content. BioResources, 2021, 16, 4831-4845. | 0.5 | 6 |
| 8 | 3D Printing of Additive-Free 2D Ti ₃ C ₂ T _{<i>x</i>} (MXene) Ink for Fabrication of Micro-Supercapacitors with Ultra-High Energy Densities. ACS Nano, 2020, 14, 640-650. | 7.3 | 285 |
| 9 | The Effects of Size and Shape Dispersity on the Phase Behavior of Nanomesogen Lyotropic Liquid Crystals. Crystals, 2020, 10, 715. | 1.0 | 6 |
| 10 | Comparison of Attachment and Antibacterial Activity of Covalent and Noncovalent Lysozyme-Functionalized Single-Walled Carbon Nanotubes. ACS Omega, 2020, 5, 2254-2259. | 1.6 | 9 |
| 11 | 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 | 22 |
| 12 | Chiral Structure Formation during Casting of Cellulose Nanocrystalline Films. Langmuir, 2020, 36, 4975-4984. | 1.6 | 6 |
| 13 | Rheological and Curing Properties of Unsaturated Polyester Resin Nanocomposites. , 2019, , 471-488. | | 0 |
| 14 | Photonic Properties and Applications of Cellulose Nanocrystal Films with Planar Anchoring. ACS Applied Nano Materials, 2018, 1, 2175-2183. | 2.4 | 38 |
| 15 | Orientation Relaxation Dynamics in Cellulose Nanocrystal Dispersions in the Chiral Liquid Crystalline Phase. Langmuir, 2018, 34, 13274-13282. | 1.6 | 11 |
| 16 | Transparent and Homogenous Cellulose Nanocrystal/Lignin UV-Protection Films. ACS Omega, 2018, 3, 10679-10691. | 1.6 | 96 |
| 17 | Microelectromechanical Systems from Aligned Cellulose Nanocrystal Films. ACS Applied Materials & Interfaces, 2018, 10, 24116-24123. | 4.0 | 13 |
| 18 | Phase Behavior of Acetylated Cellulose Nanocrystals and Origins of the Cross-Hatch Birefringent Texture. Biomacromolecules, 2018, 19, 3435-3444. | 2.6 | 4 |

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|----|---|-----|-----------|
| 19 | Effects of Polymer Additives and Dispersion State on the Mechanical Properties of Cellulose Nanocrystal Films. Macromolecular Materials and Engineering, 2017, 302, 1600351. | 1.7 | 9 |
| 20 | Effects of liquid crystalline and shear alignment on the optical properties of cellulose nanocrystal films. Cellulose, 2017, 24, 705-716. | 2.4 | 51 |
| 21 | New insights into the flow and microstructural relaxation behavior of biphasic cellulose nanocrystal dispersions from RheoSANS. Soft Matter, 2017, 13, 8451-8462. | 1.2 | 30 |
| 22 | Single-Walled Carbon Nanotube Dispersion in Tryptic Soy Broth. ACS Macro Letters, 2017, 6, 1228-1231. | 2.3 | 11 |
| 23 | (Invited) Multifunctional Materials from Dispersions of Single-Walled Carbon Nanotubes and Biomolecules. ECS Meeting Abstracts, 2017, , . | 0.0 | 0 |
| 24 | Heat Treatment of Buckypaper for Use in Volatile Organic Compounds Sampling. Journal of Nanomaterials, 2016, 2016, 1-6. | 1.5 | 6 |
| 25 | Rheology of lyotropic cholesteric liquid crystal forming single-wall carbon nanotube dispersions stabilized by double-stranded DNA. Rheologica Acta, 2016, 55, 717-725. | 1.1 | 8 |
| 26 | Concentration of lysozyme/single-walled carbon nanotube dispersions. Colloids and Surfaces B: Biointerfaces, 2016, 139, 237-243. | 2.5 | 5 |
| 27 | Rheology and Shear-Induced Textures of Silver Nanowire Lyotropic Liquid Crystals. Journal of Nanomaterials, 2015, 2015, 1-9. | 1.5 | 22 |
| 28 | Viscoelasticity of Single-Walled Carbon Nanotubes in Unsaturated Polyester Resin: Effects of Purity and Chirality Distribution. Macromolecules, 2015, 48, 8641-8650. | 2.2 | 9 |
| 29 | Solution-Based Fabrication of Carbon Nanotube Bumps for Flip-Chip Interconnects. IEEE Nanotechnology Magazine, 2014, 13, 1118-1126. | 1.1 | 6 |
| 30 | Surface plasmon resonance properties of DC magnetron sputtered Ag nanoislands on ITOâ€glass and In 2 O 3 â€PET substrates. Electronics Letters, 2014, 50, 623-624. | 0.5 | 1 |
| 31 | Free-Standing Films from Aqueous Dispersions of Lysozyme, Single-Walled Carbon Nanotubes, and Polyvinyl Alcohol. ACS Macro Letters, 2014, 3, 77-79. | 2.3 | 11 |
| 32 | Liquid Crystalline Phase Behavior of Silica Nanorods in Dimethyl Sulfoxide and Water. Langmuir, 2014, 30, 4806-4813. | 1.6 | 24 |
| 33 | Dispersion State and Fiber Toughness: Antibacterial Lysozyme‣ingle Walled Carbon Nanotubes. Advanced Functional Materials, 2013, 23, 6082-6090. | 7.8 | 26 |
| 34 | <i>In Situ</i> polymerization functionalization of singleâ€walled carbon nanotubes with polystyrene. Journal of Polymer Science Part A, 2013, 51, 3716-3725. | 2.5 | 6 |
| 35 | Dispersion and Rheology of Multiwalled Carbon Nanotubes in Unsaturated Polyester Resin. Macromolecules, 2013, 46, 1642-1650. | 2.2 | 67 |
| 36 | Direct and discriminative detection of organophosphate neurotoxins for food and agriculture products. , 2012, , . | | 5 |

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Lysozyme Dispersed Single-Walled Carbon Nanotubes: Interaction and Activity. Journal of Physical Chemistry C, 2012, 116, 10341-10348. | 1.5 | 56 |
| 38 | 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. | 1.3 | 16 |
| 39 | Carbon Nanofiber Synthesis within 3-Dimensional Sintered Nickel Microfibrous Matrices: Optimization of Synthesis Conditions. Journal of Nanotechnology, 2012, 2012, 1-14. | 1.5 | 3 |
| 40 | Amorphous-State Characterization of Efavirenz—Polymer Hot-Melt Extrusion Systems for Dissolution Enhancement. Journal of Pharmaceutical Sciences, 2012, 101, 3456-3464. | 1.6 | 103 |
| 41 | The Effect of Melt Extrusion Process Parameters on Rotaryâ€Evaporated Poly(propylene) Nanocomposites. Macromolecular Materials and Engineering, 2012, 297, 864-874. | 1.7 | Ο |
| 42 | Cholesteric and Nematic Liquid Crystalline Phase Behavior of Double-Stranded DNA Stabilized Single-Walled Carbon Nanotube Dispersions. ACS Nano, 2011, 5, 1450-1458. | 7.3 | 57 |
| 43 | Methylene Green Electrodeposited on SWNTs-Based "Bucky―Papers for NADH and l-Malate Oxidation. ACS Applied Materials & Interfaces, 2011, 3, 2402-2409. | 4.0 | 66 |
| 44 | Rheology and Phase Behavior of Lyotropic Cellulose Nanocrystal Suspensions. Macromolecules, 2011, 44, 8990-8998. | 2.2 | 317 |
| 45 | Thermal properties of polypropylene nanocomposites: Effects of carbon nanomaterials and processing. Polymer Engineering and Science, 2011, 51, 460-473. | 1.5 | 3 |
| 46 | Liquid crystalline assembly of nanocylinders. Journal of Materials Research, 2011, 26, 140-153. | 1.2 | 40 |
| 47 | Enhanced stability of enzyme organophosphate hydrolase interfaced on the carbon nanotubes. Colloids and Surfaces B: Biointerfaces, 2010, 77, 69-74. | 2.5 | 127 |
| 48 | Influence of initial mixing methods on meltâ€extruded singleâ€walled carbon nanotube–polypropylene nanocomposites. Polymer Engineering and Science, 2010, 50, 1831-1842. | 1.5 | 14 |
| 49 | Lyotropic Liquid Crystalline Self-Assembly in Dispersions of Silver Nanowires and Nanoparticles. Langmuir, 2010, 26, 11176-11183. | 1.6 | 39 |
| 50 | Renewable Nanocomposite Layer-by-Layer Assembled Catalytic Interfaces for Biosensing Applications. Langmuir, 2010, 26, 19114-19119. | 1.6 | 41 |
| 51 | Rotational and translational diffusivities of germanium nanowires. Rheologica Acta, 2009, 48, 589-596. | 1.1 | 18 |
| 52 | True solutions of single-walled carbon nanotubes for assembly into macroscopic materials. Nature Nanotechnology, 2009, 4, 830-834. | 15.6 | 486 |
| 53 | Electrochemical properties of interface formed by interlaced layers of DNA- and lysozyme-coated single-walled carbon nanotubes. Electrochemistry Communications, 2009, 11, 1401-1404. | 2.3 | 10 |
| 54 | Viscoelasticity and Shear Stability of Single-Walled Carbon Nanotube/Unsaturated Polyester Resin Dispersions. Macromolecules, 2009, 42, 6624-6632. | 2.2 | 48 |

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| # | Article | IF | CITATIONS |
|----|---|------------|---------------|
| 55 | Strong Antimicrobial Coatings: Single-Walled Carbon Nanotubes Armored with Biopolymers. Nano Letters, 2008, 8, 1896-1901. | 4.5 | 189 |
| 56 | Simple Length Determination of Single-Walled Carbon Nanotubes by Viscosity Measurements in Dilute Suspensions. Macromolecules, 2007, 40, 4043-4047. | 2.2 | 75 |
| 57 | Isotropicâ^'Nematic Phase Transition of Single-Walled Carbon Nanotubes in Strong Acids. Journal of the American Chemical Society, 2006, 128, 591-595. | 6.6 | 122 |
| 58 | Macroscopic Fibers of Single-Walled Carbon Nanotubes. , 2005, , . | | 1 |
| 59 | Phase Behavior and Rheology of SWNTs in Superacids. Macromolecules, 2004, 37, 154-160. | 2.2 | 337 |
| 60 | Macroscopic, Neat, Single-Walled Carbon Nanotube Fibers. Science, 2004, 305, 1447-1450. | 6.0 | 785 |
| 61 | Single wall carbon nanotube fibers extruded from super-acid suspensions: Preferred orientation, electrical, and thermal transport. Journal of Applied Physics, 2004, 95, 649-655. | 1.1 | 174 |
| 62 | Dissolution of Pristine Single Walled Carbon Nanotubes in Superacids by Direct Protonation. Journal of Physical Chemistry B, 2004, 108, 8794-8798. | 1.2 | 262 |
| 63 | Promoting Engineering Persistence Among Women through Alignment of Occupational Values and Perceptions of the Field. , 0, , . | | 0 |
| 64 | Getting Everyone to the Fair: Who Participates in and Benefits from Science and Engineering Fairs (Evaluation). , 0, , . | | 0 |
| 65 | Nanotechnology Solutions to Engineering Grand Challenges. , 0, , . | | 0 |
| 66 | NUE: The Freshman Experience and Nanotechnology Solutions to Engineering Grand Challenges. , 0, , . | | 1 |
| 67 | Challenges and Benefits of Introducing a Science and Engineering Fair in High-Needs Schools (Work in) Tj ETQq | 1 1 0.7843 | 314 rgBT /Ove |
| 68 | Natural Nanotechnology: Examples of Creating a Culture of Outreach with Accessible and Adaptable Modules. , 0, , . | | 0 |