

# Ann M Anderson

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

1,027  
citations

471509

17  
h-index

454955

30  
g-index

51  
all docs

51  
docs citations

51  
times ranked

689  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Aesthetic Aerogel Window Design for Sustainable Buildings. Sustainability, 2022, 14, 2887.  | 3.2 | 12        |
| 2  | Effect of slurry processing on the properties of catalytically active copper-alumina aerogel material for applications in three-way catalysis. Journal of Sol-Gel Science and Technology, 2022, 102, 422-436. | 2.4 | 2         |
| 3  | Aesthetically Enhanced Silica Aerogel Via Incorporation of Laser Etching and Dyes. Journal of Visualized Experiments, 2021, , .   | 0.3 | 1         |
| 4  | Effect of Copper Loading in Copper-Alumina Aerogels on Three-Way Catalytic Performance. Emission Control Science and Technology, 2020, 6, 324-335.  | 1.5 | 2         |
| 5  | Analysis and characterization of etched silica aerogels. Journal of Sol-Gel Science and Technology, 2020, 94, 406-415.  | 2.4 | 3         |
| 6  | Inclusion of Ceria in Alumina- and Silica-Based Aerogels for Catalytic Applications. Journal of Supercritical Fluids, 2019, 152, 104536.  | 3.2 | 15        |
| 7  | Optical and visual experimental characterization of a glazing system with monolithic silica aerogel. Solar Energy, 2019, 183, 30-39.  | 6.1 | 50        |
| 8  | Life Cycle Assessment of Aerogel Manufacture on Small and Large Scales: Weighing the Use of Advanced Materials in Oil Spill Remediation. Journal of Industrial Ecology, 2018, 22, 1365-1377.                  | 5.5 | 15        |
| 9  | Fabrication and Testing of Catalytic Aerogels Prepared Via Rapid Supercritical Extraction. Journal of Visualized Experiments, 2018, , .   | 0.3 | 3         |
| 10 | Acoustic measurements on monolithic aerogel samples and application of the selected solutions to standard window systems. Applied Acoustics, 2018, 142, 123-131.  | 3.3 | 31        |
| 11 | Facile method for surface etching of silica aerogel monoliths. Journal of Sol-Gel Science and Technology, 2018, 87, 22-26.  | 2.4 | 8         |
| 12 | Preparation and characterization of copper-containing alumina and silica aerogels for catalytic applications. Journal of Sol-Gel Science and Technology, 2017, 84, 432-445.                                   | 2.4 | 12        |
| 13 | Synthesis and Characterization of Copper-Nanoparticle-Containing Silica Aerogel Prepared via Rapid Supercritical Extraction for Applications in Three-Way Catalysis. MRS Advances, 2017, 2, 3485-3490.        | 0.9 | 7         |
| 14 | Preparation of vanadia-containing aerogels by rapid supercritical extraction for applications in catalysis. Journal of Sol-Gel Science and Technology, 2016, 77, 160-171.                                     | 2.4 | 12        |
| 15 | Cobalt-alumina sol gels: Effects of heat treatment on structure and catalytic ability. Journal of Non-Crystalline Solids, 2016, 453, 94-102.  | 3.1 | 13        |
| 16 | Preparation of Monolithic Silica Aerogel for Fenestration Applications: Scaling up, Reducing Cycle Time, and Improving Performance. Industrial & Engineering Chemistry Research, 2016, 55, 6971-6981.         | 3.7 | 41        |
| 17 | Epoxide-assisted alumina aerogels by rapid supercritical extraction. Journal of Non-Crystalline Solids, 2015, 426, 141-149.   | 3.1 | 38        |
| 18 | Fabrication and characterization of TEOS-based silica aerogels prepared using rapid supercritical extraction. Journal of Sol-Gel Science and Technology, 2014, 70, 371-377.                                   | 2.4 | 13        |

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|----|--|-----|-----------|
| 19 | Hydrophobicity and drag reduction properties of surfaces coated with silica aerogels and xerogels. Journal of Sol-Gel Science and Technology, 2014, 71, 490-500.                                 | 2.4 | 12        |
| 20 | Preparing Silica Aerogel Monoliths via a Rapid Supercritical Extraction Method. Journal of Visualized Experiments, 2014, , e51421.   | 0.3 | 15        |
| 21 | Fabrication of titania and titania-silica aerogels using rapid supercritical extraction. Journal of Sol-Gel Science and Technology, 2012, 62, 404-413.   | 2.4 | 22        |
| 22 | Hydrophobic Silica Aerogels: Review of Synthesis, Properties and Applications. , 2011, , 47-77.  |     | 24        |
| 23 | Effect of uni-axial loading on the nanostructure of silica aerogels. Journal of Non-Crystalline Solids, 2011, 357, 3176-3183.  | 3.1 | 15        |
| 24 | Aerogels as Platforms for Chemical Sensors. , 2011, , 637-650.   |     | 9         |
| 25 | Hydrophobic silica aerogels prepared via rapid supercritical extraction. Journal of Sol-Gel Science and Technology, 2010, 53, 199-207.   | 2.4 | 43        |
| 26 | Alumina aerogels prepared via rapid supercritical extraction. Journal of Sol-Gel Science and Technology, 2010, 53, 216-226.  | 2.4 | 31        |
| 27 | Silica aerogels prepared via rapid supercritical extraction: Effect of process variables on aerogel properties. Journal of Non-Crystalline Solids, 2009, 355, 101-108.                           | 3.1 | 64        |
| 28 | Analysis of a rapid supercritical extraction aerogel fabrication process: Prediction of thermodynamic conditions during processing. Journal of Non-Crystalline Solids, 2008, 354, 3685-3693.     | 3.1 | 30        |
| 29 | Saturated Liquid Densities and Vapor Pressures of Tetramethyl Orthosilicate Measured Using a Constant Volume Apparatus. Journal of Chemical & Engineering Data, 2008, 53, 1015-1020.             | 1.9 | 3         |
| 30 | A Light Transmission Based Liquid Crystal Thermography System. Journal of Heat Transfer, 2008, 130, .  | 2.1 | 2         |
| 31 | The Effects of Film Thickness, Light Polarization, and Light Intensity on the Light Transmission Characteristics of Thermochromic Liquid Crystals. Journal of Heat Transfer, 2007, 129, 372-378. | 2.1 | 9         |
| 32 | A Comparison of Chiral Nematic and Cholesteric Thermochromic Liquid Crystals for Use in a Light Transmission Based Temperature Sensing System. , 2007, , 599.                                    |     | 0         |
| 33 | Light Transmission Characteristics of Thermochromic Liquid Crystals. , 2005, , 547.  |     | 2         |
| 34 | Using Objective-Driven Heat Transfer Lab Experiences to Simultaneously Teach Critical Thinking Skills and Technical Content. , 2005, , .   |     | 5         |
| 35 | A fast supercritical extraction technique for aerogel fabrication. Journal of Non-Crystalline Solids, 2004, 350, 238-243.  | 3.1 | 86        |
| 36 | Aerogel-platform optical sensors for oxygen gas. Journal of Non-Crystalline Solids, 2004, 350, 326-335.  | 3.1 | 61        |

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|----|--|-----|-----------|
| 37 | Detecting sol-gel transition using light transmission. Journal of Non-Crystalline Solids, 2004, 350, 259-265.  | 3.1 | 4         |
| 38 | The Effects of Dimpled Surface Geometry on Heat Transfer in an Impinging Jet Flow. , 2002, , 73.   |     | 0         |
| 39 | A Transient Technique for Calibrating Thermochromic Liquid Crystals: The Effects of Surface Preparation, Lighting and Overheat. , 2002, , 445.   |     | 12        |
| 40 | Functional significance of variation in bryophyte canopy structure. American Journal of Botany, 2001, 88, 1568-1576.   | 1.7 | 69        |
| 41 | An Experimental Study on the Relationship Between Velocity Fluctuations and Heat Transfer in a Turbulent Air Flow. Journal of Turbomachinery, 1999, 121, 288-294.  | 1.7 | 3         |
| 42 | An Experimental Study on the Relationship Between Velocity Fluctuations and Heat Transfer in a Turbulent Air Flow. , 1998, , .   |     | 1         |
| 43 | A Comparison of Computational and Experimental Results for Flow and Heat Transfer From an Array of Heated Blocks. Journal of Electronic Packaging, Transactions of the ASME, 1997, 119, 32-39.                                 | 1.8 | 25        |
| 44 | Elements of a General Correlation for Turbulent Heat Transfer. Journal of Heat Transfer, 1996, 118, 287-293.   | 2.1 | 8         |
| 45 | Decoupling Convective and Conductive Heat Transfer Using the Adiabatic Heat Transfer Coefficient. Journal of Electronic Packaging, Transactions of the ASME, 1994, 116, 310-316.   | 1.8 | 21        |
| 46 | The Adiabatic Heat Transfer Coefficient and the Superposition Kernel Function: Part 1 Data for Arrays of Flatpacks for Different Flow Conditions. Journal of Electronic Packaging, Transactions of the ASME, 1992, 114, 14-21. | 1.8 | 68        |
| 47 | The Adiabatic Heat Transfer Coefficient and the Superposition Kernel Function: Part 2 Modeling Flatpack Data as a Function of Channel Turbulence. Journal of Electronic Packaging, Transactions of the ASME, 1992, 114, 22-28. | 1.8 | 29        |
| 48 | Direct Air Cooling of Electronic Components: Reducing Component Temperatures by Controlled Thermal Mixing. Journal of Heat Transfer, 1991, 113, 56-62.   | 2.1 | 24        |
| 49 | Applying Heat Transfer Coefficient Data to Electronics Cooling. Journal of Heat Transfer, 1990, 112, 882-890.  | 2.1 | 47        |
| 50 | Benchtop Scale Testing of Aerogel Catalysts: Preliminary Results. , 0, , .   |     | 5         |