Ann M Anderson

List of Publications by Year
in descending order

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50	1,027	471509	454955
papers	citations	17	30
		h-index	g-index

51	51	51	689
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A fast supercritical extraction technique for aerogel fabrication. Journal of Non-Crystalline Solids, 2004, 350, 238-243.	3.1	86
2	Functional significance of variation in bryophyte canopy structure. American Journal of Botany, 2001, 88, 1568-1576.	1.7	69
3	The Adiabatic Heat Transfer Coefficient and the Superposition Kernel Function: Part 1â€"Data for Arrays of Flatpacks for Different Flow Conditions. Journal of Electronic Packaging, Transactions of the ASME, 1992, 114, 14-21.	1.8	68
4	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
5	Aerogel-platform optical sensors for oxygen gas. Journal of Non-Crystalline Solids, 2004, 350, 326-335.	3.1	61
6	Optical and visual experimental characterization of a glazing system with monolithic silica aerogel. Solar Energy, 2019, 183, 30-39.	6.1	50
7	Applying Heat Transfer Coefficient Data to Electronics Cooling. Journal of Heat Transfer, 1990, 112, 882-890.	2.1	47
8	Hydrophobic silica aerogels prepared via rapid supercritical extraction. Journal of Sol-Gel Science and Technology, 2010, 53, 199-207.	2.4	43
9	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
10	Epoxide-assisted alumina aerogels by rapid supercritical extraction. Journal of Non-Crystalline Solids, 2015, 426, 141-149.	3.1	38
11	Alumina aerogels prepared via rapid supercritical extraction. Journal of Sol-Gel Science and Technology, 2010, 53, 216-226.	2.4	31
12	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
13	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
14	The Adiabatic Heat Transfer Coefficient and the Superposition Kernel Function: Part 2â€"Modeling Flatpack Data as a Function of Channel Turbulence. Journal of Electronic Packaging, Transactions of the ASME, 1992, 114, 22-28.	1.8	29
15	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
16	Direct Air Cooling of Electronic Components: Reducing Component Temperatures by Controlled Thermal Mixing. Journal of Heat Transfer, 1991, 113, 56-62.	2.1	24
17	Hydrophobic Silica Aerogels: Review of Synthesis, Properties and Applications. , 2011, , 47-77.		24
18	Fabrication of titania and titaniaâ€“silica aerogels using rapid supercritical extraction. Journal of Sol-Gel Science and Technology, 2012, 62, 404-413.	2.4	22

#	Article	IF	Citations
19	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
20	Effect of uni-axial loading on the nanostructure of silica aerogels. Journal of Non-Crystalline Solids, 2011, 357, 3176-3183.	3.1	15
21	Preparing Silica Aerogel Monoliths via a Rapid Supercritical Extraction Method. Journal of Visualized Experiments, 2014, , e51421.	0.3	15
22	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
23	Inclusion of Ceria in Alumina- and Silica-Based Aerogels for Catalytic Applications. Journal of Supercritical Fluids, 2019, 152, 104536.	3.2	15
24	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
25	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
26	A Transient Technique for Calibrating Thermochromic Liquid Crystals: The Effects of Surface Preparation, Lighting and Overheat. , 2002, , 445.		12
27	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
28	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
29	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
30	Aesthetic Aerogel Window Design for Sustainable Buildings. Sustainability, 2022, 14, 2887.	3.2	12
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	Aerogels as Platforms for Chemical Sensors. , 2011, , 637-650.		9
33	Elements of a General Correlation for Turbulent Heat Transfer. Journal of Heat Transfer, 1996, 118, 287-293.	2.1	8
34	Facile method for surface etching of silica aerogel monoliths. Journal of Sol-Gel Science and Technology, 2018, 87, 22-26.	2.4	8
35	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
36	Benchtop Scale Testing of Aerogel Catalysts: Preliminary Results. , 0, , .		5

#	Article	IF	Citations
37	Using Objective-Driven Heat Transfer Lab Experiences to Simultaneously Teach Critical Thinking Skills and Technical Content. , 2005, , .		5
38	Detecting solâ€“gel transition using light transmission. Journal of Non-Crystalline Solids, 2004, 350, 259-265.	3.1	4
39	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
40	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
41	Fabrication and Testing of Catalytic Aerogels Prepared Via Rapid Supercritical Extraction. Journal of Visualized Experiments, 2018, , .	0.3	3
42	Analysis and characterization of etched silica aerogels. Journal of Sol-Gel Science and Technology, 2020, 94, 406-415.	2.4	3
43	Light Transmission Characteristics of Thermochromic Liquid Crystals. , 2005, , 547.		2
44	A Light Transmission Based Liquid Crystal Thermography System. Journal of Heat Transfer, 2008, 130, .	2.1	2
45	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
46	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
47	Aesthetically Enhanced Silica Aerogel Via Incorporation of Laser Etching and Dyes. Journal of Visualized Experiments, 2021, , .	0.3	1
48	An Experimental Study on the Relationship Between Velocity Fluctuations and Heat Transfer in a Turbulent Air Flow. , 1998, , .		1
49	The Effects of Dimpled Surface Geometry on Heat Transfer in an Impinging Jet Flow. , 2002, , 73.		0
50	A Comparison of Chiral Nematic and Cholesteric Thermochromic Liquid Crystals for Use in a Light Transmission Based Temperature Sensing System. , 2007, , 599.		0