

Randall Hay

List of Publications by Year in descending order

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35
papers

1,262
citations

394421

19
h-index

377865

34
g-index

35
all docs

35
docs citations

35
times ranked

457
citing authors

#	ARTICLE	IF	CITATIONS
1	Interface Design for Oxidation-Resistant Ceramic Composites. Journal of the American Ceramic Society, 2002, 85, 2599-2632.	3.8	261
2	Characterization and High-Temperature Mechanical Behavior of an Oxide/Oxide Composite. Journal of the American Ceramic Society, 2003, 86, 981-990.	3.8	115
3	Continuous Coating of Oxide Fiber Tows Using Liquid Precursors: Monazite Coatings on Nextel 720, J. Journal of the American Ceramic Society, 1999, 82, 2321-2331.	3.8	76
4	Monazite Coatings on Fibers: II, Coating without Strength Degradation. Journal of the American Ceramic Society, 2001, 84, 2793-2801.	3.8	59
5	Preparation of Thin Sections of Coated Fibers for Characterization by Transmission Electron Microscopy. Journal of the American Ceramic Society, 1996, 79, 2481-2484.	3.8	53
6	Influence of Interfacial Roughness on Fiber Sliding in Oxide Composites with La-Monazite Interphases. Journal of the American Ceramic Society, 2003, 86, 305-316.	3.8	50
7	Oxidation kinetics strength of Hi-Nicalon TM SiC fiber after oxidation in dry and wet air. Journal of the American Ceramic Society, 2017, 100, 4110-4130.	3.8	50
8	Monazite Coatings on Fibers: I, Effect of Temperature and Alumina Doping on Coated-Fiber Tensile Strength. Journal of the American Ceramic Society, 2001, 84, 2783-2792.	3.8	47
9	TEM specimen preparation and characterization of ceramic coatings on fiber tows. Thin Solid Films, 1997, 308-309, 389-392.	1.8	42
10	Rare-Earth Disilicates As Oxidation-Resistant Fiber Coatings for Silicon Carbide Ceramic-Matrix Composites. Journal of the American Ceramic Society, 2011, 94, 1716-1724.	3.8	38
11	Fiber Strength After Grain Growth in Nextel TM 610 Alumina Fiber. Journal of the American Ceramic Society, 2015, 98, 1907-1914.	3.8	38
12	Precipitation Coating of Monazite on Woven Ceramic Fibers: I. Feasibility. Journal of the American Ceramic Society, 2007, 90, 448-455.	3.8	37
13	Evaluation of Porous ZrO ₂ -SiO ₂ and Monazite Coatings Using Nextel TM 720-Fiber-Reinforced Blackglas TM Minicomposites. Journal of the American Ceramic Society, 2001, 84, 1526-1532.	3.8	32
14	Creep of Nextel TM 610 Fiber at 1100°C in Air and in Steam. International Journal of Applied Ceramic Technology, 2013, 10, 276-284.	2.1	32
15	Model for SiC fiber strength after oxidation in dry and wet air. Journal of the American Ceramic Society, 2019, 102, 397-415.	3.8	29
16	Modeling Environmental Degradation of SiC-Based Fibers. Journal of the American Ceramic Society, 2016, 99, 1725-1734.	3.8	28
17	Precipitation Coating of Monazite on Woven Ceramic Fibers: II. Effect of Processing Conditions on Coating Morphology and Strength Retention of Nextel TM 610 and 720 Fibers. Journal of the American Ceramic Society, 2008, 91, 1508-1516.	3.8	26
18	Processing and Testing of RE ₂ Si ₂ O ₇ Fiber-Matrix Interphases for SiC-SiC Composites. Journal of the American Ceramic Society, 2016, 99, 415-423.	3.8	23

#	ARTICLE	IF	CITATIONS
19	Evaluation of SiC/SiC minicomposites with yttrium disilicate fiber coating. Journal of the American Ceramic Society, 2018, 101, 91-102.	3.8	20
20	Passive oxidation kinetics for glass and cristobalite formation on Hiâ€Nicalonâ„¢â€SiC fibers in steam. Journal of the American Ceramic Society, 2018, 101, 5241-5256.	3.8	20
21	SiC fiber strength after low pO_2 oxidation. Journal of the American Ceramic Society, 2018, 101, 831-844.	3.8	19
22	Crystallization kinetics for SiO_2 formed during SiC fiber oxidation in steam. Journal of the American Ceramic Society, 2019, 102, 5587-5602.	3.8	19
23	Zirconiaâ€Silicaâ€Carbon Coatings on Ceramic Fibers. Journal of the American Ceramic Society, 2004, 87, 1967-1976.	3.8	18
24	Total Thermal Expansion Coefficients of the Yttrium Silicate Apatite Phase $Y_{4.69}(SiO_4)_3O_{18}$. Journal of the American Ceramic Society, 2014, 97, 28-31.	3.8	18
25	Precipitation Coating of Rareâ€Earth Orthophosphates on Woven Ceramic Fibersâ€Effect of Rareâ€Earth Cation on Coating Morphology and Coated Fiber Strength. Journal of the American Ceramic Society, 2008, 91, 2117-2123.	3.8	13
26	Precipitation Coating of Monazite on Woven Ceramic Fibers: IIIâ€Coating without Strength Degradation Using a Phytic Acid Precursor. Journal of the American Ceramic Society, 2010, 93, 420-428.	3.8	13
27	SiC/SiC mini-composites with yttrium disilicate fiber coatings: Oxidation in steam. Journal of the European Ceramic Society, 2021, 41, 3132-3140.	5.7	13
28	Determination of 3â€Alumina Grain Orientation, Size, Shape, and Growthâ€Kinetics from 2â€Data in Nextelâ„¢ 610 Fibers. Journal of the American Ceramic Society, 2015, 98, 2295-2306.	3.8	10
29	Degradation of Nextelâ„¢ 610â€based oxideâ€oxide ceramic composites by aluminum oxychloride decomposition products. Journal of the American Ceramic Society, 2018, 101, 4203-4223.	3.8	10
30	In situ $Y_2Si_2O_7$ coatings on Hiâ€Nicalonâ€SiC fibers: Phase formation and fiber strength. Journal of the American Ceramic Society, 2019, 102, 5725-5737.	3.8	10
31	Static fatigue of Hiâ€Nicalonâ„¢ fiber at elevated temperature in air, steam, and silicic acidâ€saturated steam. Journal of the American Ceramic Society, 2020, 103, 1358-1371.	3.8	10
32	Fiber Strength with Coatings from Sols and Solutions. , 0, , 43-52.		10
33	In situ $Y_2Si_2O_7$ coatings on SiC fibers: Thermodynamic analysis and processing. Journal of the American Ceramic Society, 2019, 102, 167-177.	3.8	8
34	IR transmission prediction, processing, and characterization of dense $La_2Ce_2O_7$. Journal of the American Ceramic Society, 2021, 104, 5659-5670.	3.8	8
35	Subcritical crack growth models for static fatigue of Hiâ€Nicalon TM â€SiC fiber in air and steam. Journal of the American Ceramic Society, 2021, 104, 3562-3592.	3.8	7