Karl E Spear

List of Publications by Year
in descending order

24	1,770	759233 12	713466 21
papers	citations	h-index	g-index

26	26	26	801
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermodynamic Analysis of Alumina Refractory Corrosion by Sodium or Potassium Hydroxide in Glass Melting Furnaces. Journal of the Electrochemical Society, 2002, 149, B551.	2.9	28
2	Extension of the Modified Associate Species Thermochemical Model for High-Level Nuclear Waste: Inclusion of Chromia. Materials Research Society Symposia Proceedings, 2002, 757, II5.12.1.	0.1	0
3	Thermochemical Modeling of Oxide Glasses. Journal of the American Ceramic Society, 2002, 85, 2887-2894.	3.8	90
4	Thermodynamic Analysis of Silica Refractory Corrosion in Glass-Melting Furnaces. Journal of the Electrochemical Society, 2001, 148, B59.	2.9	66
5	Thermochemical Modeling of Glass: Application to High-Level Nuclear Waste Glass. MRS Bulletin, 1999, 24, 37-44.	3.5	47
6	Passive-Oxidation Kinetics of High-Purity Silicon Carbide from 800o to 1100oC. Journal of the American Ceramic Society, 1996, 79, 2897-2911.	3.8	127
7	Oxidation Behavior of CVD and Single Crystal SiC at 1100Â°C. Journal of the Electrochemical Society, 1995, 142, L214-L216.	2.9	12
8	Discontinuous Phase Formation and Selective Attack of SiC Materials Exposed to Low Oxygen Partial Pressure Environments. NATO Advanced Study Institutes Series Series E, Applied Sciences, 1994, , 153-164.	0.2	3
9	Oxygen poisoning of diamond film growth. Applied Physics Letters, 1993, 63, 2641-2643.	3.3	11
10	Corrosion of Sic Materials in N2-H2-CO Gaseous Environments: I, Thermodynamics and Kinetics of Reactions. Journal of the American Ceramic Society, 1992, 75, 3257-3267.	3.8	24
11	Corrosion of SiC Mateials in N2-H2-CO Gaseous Environments: II, Durability and Mechanical Properties. Journal of the American Ceramic Society, 1992, 75, 3268-3277.	3.8	12
12	Etching of Silicon Carbide Materials at Elevated Temperatures in a Nitrogen-Based Gas. Journal of the American Ceramic Society, 1991, 74, 457-459.	3.8	3
13	Isotopic Studies of Oxidation of Si3â€‰Nâ€‰4 and Si using SIMS. Journal of the Electrochemical Society, 1990, 137, 741-742.	2.9	17
14	Diamond-Ceramic Coating of the Future. Journal of the American Ceramic Society, 1989, 72, 171-191.	3.8	646
15	Oxidation Studies of Crystalline CVD Silicon Nitride. Journal of the Electrochemical Society, 1989, 136, 1527-1536.	2.9	199
16	Predicted Infrared Spectrum and X-Ray Diffraction Patterns for Diamond Polyiypes. Materials Research Society Symposia Proceedings, 1989, 162, 213.	0.1	1
17	Predicting The Chemistry In Cvd Systems. Materials Research Society Symposia Proceedings, 1989, 168, 19.	0.1	8
18	Growth mechanism of vapor-deposited diamond. Journal of Materials Research, 1988, 3, 133-140.	2.6	369

#	Article	IF	Citations
19	Assessment of the thermodynamic properties of vanadium silicides utilizing ternary phase equilibria. Journal of the Less Common Metals, 1978, 60, 185-193.	0.8	11
20	Analysis of the Chemical Vapor Deposition of Titanium Diboride: I . Equilibrium Thermodynamic Analysis. Journal of the Electrochemical Society, 1977, 124, 786-790.	2.9	51
21	Phase Behavior and Related Properties of Rare-Earth Borides. , 1976, , 91-159.		19
22	High-Temperature Reactivity. , 1976, , 115-192.		9
23	Chemical transport reactions. A relevant area of research. Journal of Chemical Education, 1972, 49, 81.	2.3	8
24	Formation of Active Carbon in Twin-Crucible Studies of Vanadium Carbonitride Solutions. Journal of the American Ceramic Society, 1969, 52, 257-262.	3.8	9