

Karl E Spear

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,770
citations

759233

12
h-index

713466

21
g-index

26
all docs

26
docs citations

26
times ranked

801
citing authors

#	ARTICLE	IF	CITATIONS
1	Diamond-Ceramic Coating of the Future. Journal of the American Ceramic Society, 1989, 72, 171-191.	3.8	646
2	Growth mechanism of vapor-deposited diamond. Journal of Materials Research, 1988, 3, 133-140.	2.6	369
3	Oxidation Studies of Crystalline CVD Silicon Nitride. Journal of the Electrochemical Society, 1989, 136, 1527-1536.	2.9	199
4	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
5	Thermochemical Modeling of Oxide Glasses. Journal of the American Ceramic Society, 2002, 85, 2887-2894.	3.8	90
6	Thermodynamic Analysis of Silica Refractory Corrosion in Glass-Melting Furnaces. Journal of the Electrochemical Society, 2001, 148, B59.	2.9	66
7	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
8	Thermochemical Modeling of Glass: Application to High-Level Nuclear Waste Glass. MRS Bulletin, 1999, 24, 37-44.	3.5	47
9	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
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	Phase Behavior and Related Properties of Rare-Earth Borides. , 1976, , 91-159.		19
12	Isotopic Studies of Oxidation of Si3â€‰%Nâ€‰%4 and Si using SIMS. Journal of the Electrochemical Society, 1990, 137, 741-742.	2.9	17
13	Corrosion of SiC Mateiels in N2-H2-CO Gaseous Environments: II, Durability and Mechanical Properties. Journal of the American Ceramic Society, 1992, 75, 3268-3277.	3.8	12
14	Oxidation Behavior of CVD and Single Crystal SiC at 1100Â°C. Journal of the Electrochemical Society, 1995, 142, L214-L216.	2.9	12
15	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
16	Oxygen poisoning of diamond film growth. Applied Physics Letters, 1993, 63, 2641-2643.	3.3	11
17	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
18	High-Temperature Reactivity. , 1976, , 115-192.		9

#	ARTICLE	IF	CITATIONS
19	Chemical transport reactions. A relevant area of research. Journal of Chemical Education, 1972, 49, 81.	2.3	8
20	Predicting The Chemistry In Cvd Systems. Materials Research Society Symposia Proceedings, 1989, 168, 19.	0.1	8
21	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
22	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
23	Predicted Infrared Spectrum and X-Ray Diffraction Patterns for Diamond Polytypes. Materials Research Society Symposia Proceedings, 1989, 162, 213.	0.1	1
24	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