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Abbreviations

UHTCs	Ultra High-Temperature Ceramics
TPS	Thermal Protection System
FCC	Face Centered Cubic
BSE	Back Scattered Mode
EDS/EDX	Energy Dispersive X-ray Spectroscopy
E.W.	Equivalent Weight
HP	Hot Pressing
SPS	Spark Plasma Sintering
PS	Pressureless Sintering
JCPDS	Joint Committee on Powder Diffraction Standards
RPM	Rotation Per Minute
SAED	Selected Area Electron Diffraction
SEM	Scanning Electron Microscopy
TEM	Transmission Electron Micrographs
XRD	X-Ray Diffraction
XPS	X-ray Photoelectron Spectroscope

Symbols

°C	Degree Centigrade
α	Alpha
β	Beta
θ	Theta
λ	Lambda
Å	Angstrom
μm	Micrometre
nm	Nanometre
cm	Centimetre
min	Minute
ρ	Density
Hv	Vickers hardness
Kg	Kilogram
G	Gram
%	Percentage