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List of Abbreviations

BF	:	**B**right **F**ield
CYS	:	**C**ompressive **Y**ield **S**trength
DF	:	**D**ark Fild
FWHM	:	**F**ull **W**idth **H**alf **M**axima
GB	:	**G**rain **B**oundary
GBMS	:	**G**rain **B**oundary **M**isorientation **S**train
GNP	:	**G**raphene **N**ano **P**articles
HAGB	:	**H**igh **A**ngle **G**rain **B**oundary
KAM	:	**K**ernel **A**verage **M**isorientation
LAGB	:	**L**ow **A**ngle **G**rain **B**oundary
NCs	:	**N**anocomposites
OCP	:	**O**pen **C**ircuit **P**otential
SHE	:	**S**train **H**ardening **E**xponent
SHR	:	**S**train **H**ardening **R**ate
TB	:	**T**win **B**oundary
TYS	:	**T**ensile **Y**ield **S**trength
UTS	:	**U**ltimate **T**ensile **S**trength
UCS	:	**U**ltimate **C**ompressive **S**trength
XRD	:	**X**-ray **D**iffraction

List of Symbols

T	:	Absolute temperature
σ	:	Applied stress
K	:	Boltzmann's constant
b	:	Burgers vector
Q	:	Creep activation energy
A	:	Diameter of the indenter
D_0	:	Coefficient of self-diffusion
%El	:	%Elongation
D	:	Grain size
p	:	Inverse grain size exponent
P_m	:	Mean pressure
$\dot{\epsilon}$	:	Steady-state creep rate
G	:	Shear modulus
n	:	Stress exponent
R	:	Universal gas constant
V_{imp}	:	Impression velocity
σ_{imp}	:	Stress in impression creep