

List of abbreviations

SmA	Smectic A
SmB	Smectic B
SmC	Smectic C
SmF	Smectic F
SmI	Smectic I
SmC*	Smectic C*
N _u	Uniaxial Nematic
N _b	Biaxial Nematic
DSC	Differential Scanning Calorimetry
NMR	Nuclear Magnetic Resonance
NLO	Non-linear Optical
LC	Liquid Crystal
POM	Polarizing Optical Microscope
N	Nematic
Iso	Isotropic
Cr	Crystal
kJ	Kilojoule
TGA	Thermogravimetry Analyzer
TG	Thermogravimetry
MHz	Megahertz
FT-IR	Fourier Transform Infrared
HOMO	Highest occupied molecular orbital
LUMO	Lowest unoccupied molecular orbital
N*	Chiral Nematic
N _D	Discotic Nematic
L	Length
D	Width
L/D	Aspect Ratio
FMO	Frontier Molecular Orbital
MEP	Molecular Electrostatic Potential
XRD	X-Ray Diffraction
PL	Photoluminescent
Å	Angstrom

ppm	parts per million
T _{N-I}	Nematic Phase Stability
EtOH	Ethanol
AcOH	Acetic acid
UV	Ultraviolet