

ABBREVIATIONS

AAT	Anglo-Australian Telescope
AC	Amorphous Carbon
AGB	Asymptotic Giant Branch
AGN	Active Galactic Nuclei
BIMA	Berkeley-Illinois-Maryland Array
CASSCF	Complete Active Space – Self Consistent Field
CFHT	Canada-France-Hawaii Telescope
CI	Configuration Interaction
CIA	Collision Induced Absorption
CMB	Crossed Molecular Beam or Cosmic Microwave Background
CR	Compact Ridge
CRESU	Cinétique de Réaction en Ecoulement Supersonique Uniforme
CSE	CircumStellar Envelope
CSO	Caltech Submillimeter Observatory
DIB	Diffuse Interstellar Band
ESA	European Space Agency
FCRAO	Five College Radio Astronomical Observatory
FIRST	Far-Infrared and Submillimeter Space Telescope
GHR	Goddard High Resolution Spectrograph (HST)
HAC	Hydrogenated Amorphous Carbon
HLC	High Latitude Cloud
HST	Hubble Space Telescope
IDP	Interplanetary Dust Particle
IRAM	Institut de Radioastronomie Millimétrique
IRAS	InfraRed Astronomical Satellite
IRTF	InfraRed Telescope Facility
ISC	InterStellar Cloud
ISO	Infrared Space Observatory
ISM	InterStellar Medium
IUE	International Ultraviolet Explorer
JCMT	James Clerk Maxwell Telescope
KAO	Kuiper Airborne Observatory
LIF	Laser Induced Fluorescence
LMSA	Large Millimeter and Submillimeter Array (Japan)
LRS	Low Resolution Spectrometer (IRAS)
LSA	Large Southern Array (Europe)
LTE	Local Thermodynamic Equilibrium
LWS	Long Wavelength Spectrometer (ISO)
MEP	Mean Escape Probability
$\mu\text{L}^2\text{MS}$	Microprobe Two-step Laser Mass Spectrometer
MMA	MilliMeter Array (NRAO)
MMT	Multiple Mirror Telescope
MR-CI	Multi-Reference Configuration Interaction
NRAO	National Radio Astronomy Observatory
ODIN	Swedish Satellite for Astronomy and Aeronomy at (Sub)millimeter Wavelengths

OHC	Orion Hot Core
OVRO	Owens Valley Radio Observatory
PAH	Polycyclic Aromatic Hydrocarbon
PBI	Plateau de Bure Interferometer (IRAM)
PDR	Photon-Dominated Region
PES	Potential Energy Surface
PLP	Pulsed Laser Photolysis
QCT	Quasi Classical Trajectory
QSO	Quasi Stellar Object
REMPI	Resonance-Enhanced Multi-Photon Ionization
RTOF	Reflectron Time Of Flight
SL9	Comet Shoemaker-Levy 9
SOFIA	Stratospheric Observatory For Infrared Astronomy
SMA	Smithsonian Submillimeter Array
STIS	Space Telescope Imaging Spectrograph
SWAS	Submillimeter Wave Astronomy Satellite
SWS	Short Wavelength Spectrometer (ISO)
TE	Thermodynamic Equilibrium
TOF	Time Of Flight
TRIM	Transport of Ions in Matter
UHRF	Ultra High Resolution Facility (AAT)
UIR	Unidentified InfraRed
ULIRG	UltraLuminous InfraRed Galaxy
YSO	Young Stellar Object

JOURNAL ABBREVIATIONS

A&A	Astronomy & Astrophysics
A&AR	Astronomy & Astrophysics Review
A&AS	Astronomy & Astrophysics Supplement
AJ	Astronomical Journal
ARAA	Annual Reviews of Astronomy and Astrophysics
ApJ	Astrophysical Journal
ApJL	Astrophysical Journal Letters
ApJS	Astrophysical Journal Supplement
ASS	Astrophysics and Space Science
BAAS	Bulletin of the American Astronomical Society
CP	Chemical Physics
CPL	Chemical Physics Letters
GRL	Geophysics Research Letters
JCP	Journal of Chemical Physics
JMS	Journal of Molecular Spectroscopy
JPC	Journal of Physical Chemistry
JQSRT	Journal of Quantitative Spectroscopy and Radiative Transfer
MNRAS	Monthly Notices of the Royal Astronomical Society
PASJ	Publications of the Astronomical Society of Japan
PASP	Publications of the Astronomical Society of the Pacific