Reference books and journals:

_AIAA Journal and AIAA Journal of Propulsion and Power._
Most up-to-date articles on mixing, subsonic and supersonic combustion, shear and separating flows, flow and combustion instability, and aerothermochemistry. Focuses on aerospace applications.

_AICHE Journal._
Mixing and combustion in chemical engineering applications.

_Proceeding of the Combustion Institute, or the Symposium (International) on Combustion_ (29 volumes so far).
Proceeding appear every two years, captures the state of the art.
_Combustion and Flame_ (Journal of the Combustion Institute).

_Combustion Science and Technology_ (Journal)

_Progress in Energy and Combustion Science_
Good extensive Review articles in combustion.

_Journal of Fluid Mechanics._

_Physics of Fluids._

Annular Reviews of Fluid Mechanics
Solid review articles on the fluid dynamics of mixing and combustion.

J.M. Beer and N.A. Chigier, _Combustion Aerodynamics._
Flame stabilization in practical systems, useful formula for practical calculations and an introduction to combustion modeling.


Benson, S.W., _The Foundation of Chemical Kinetics._

Comprehensive, intermediate, classic textbook on transport processes in fluids.


Glassman, I., _Combustion_, 3rd ed.
A nice book focuses on the chemistry of combustion.


Lefebvre, A.W., *Gas Turbine Combustion.*
Applied gas turbine combustor analysis.


A summary of some methods used to models the age-old problem of the interaction between turbulence and combustion.

Markstien, G.H., *Nonsteady Flame propagation.*
A unique monograph on the subject.

An up-to-date book in the field.

Oran, E. and Boris, J., *Numerical Simulation of Reactive Flow.*
A good introduction to a class of methods which has been used in reacting flow and combustion computation.

Park, C., *Nonequilibrium Hypersonic Aerothermochemistry.*
The physics of high and very high temperature gas dynamics with a computational aerodynamics twist.


Intermediate transport phenomena textbook with a combustion twist. Includes many good solved examples.

A classic textbook in gas dynamics.

An up-to-date review of fluid mechanics, with extensive review on flow instability and mixing.

*Society of Automotive Engineering, Transactions*

A good book describing, using a balanced combination of mathematical and phenomenological model, many combustion problems. More gas dynamics than chemistry.


Contains a thorough review of the fundamentals required for the analysis of reacting flows. Focuses on high-temperature gas dynamics

A good reference on unconventional combustion systems such as fluidized beds, pulsating, catalytic and plasma-jet combustion.

Covers the theoretical foundations of combustion, including recent results using asymptotic analysis, rigorous mathematics and emphasis on fluid mechanics.

A comprehensive book with a heavy dose of analyses of combustion phenomena (pre asymptotics).

An authoritative, difficult-to-read but comprehensive book on the subject

Good chapters on combustion in internal combustion engines can be found in respective books by Taylor, Ferguson, Heywood. 

Good chapters on the role of combustion in air pollution can be found in respective books by Seinfeld, Flagan and Seinfeld, *Fundamentals of Air Pollution Engineering*, Prentice Hall.