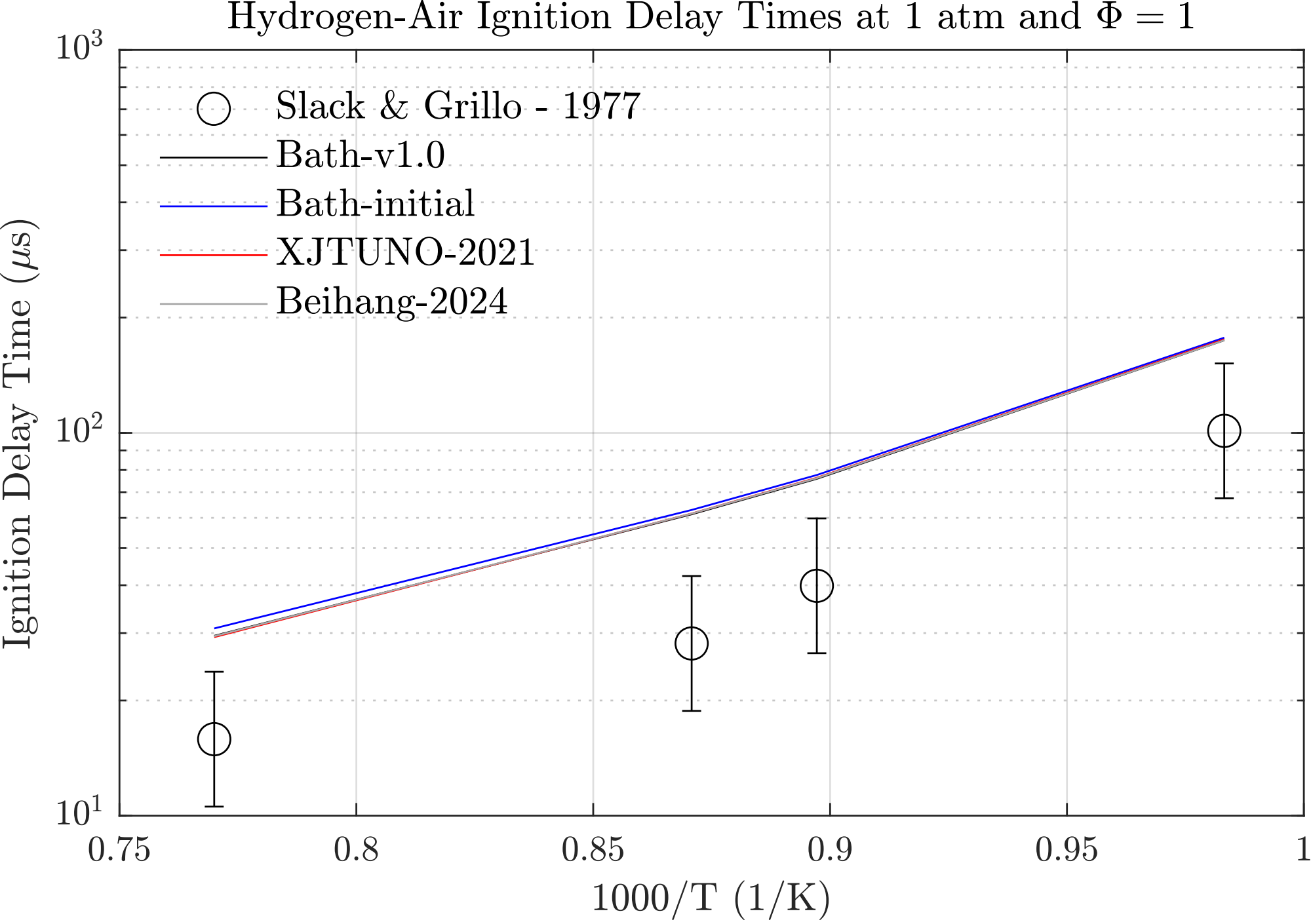
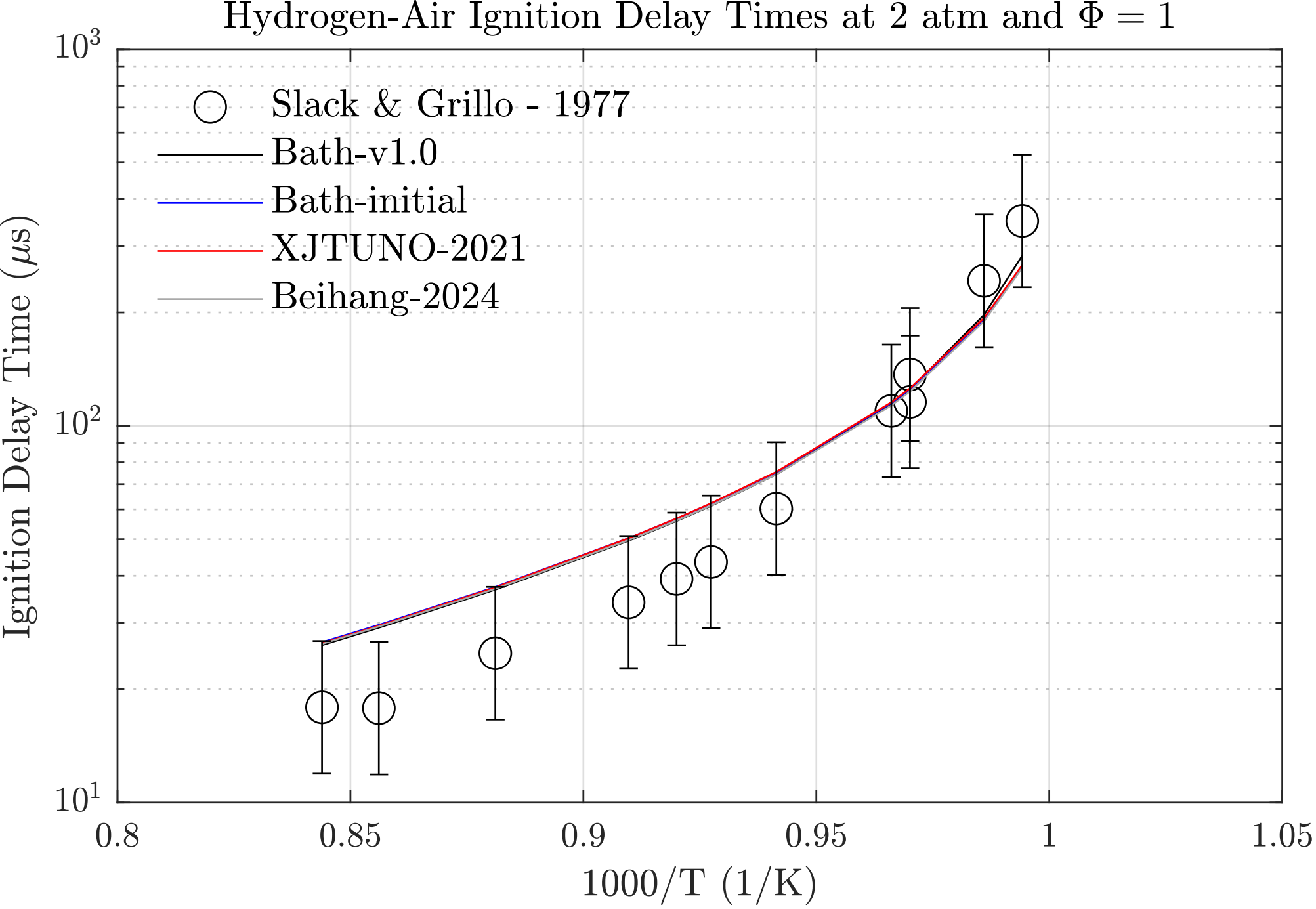
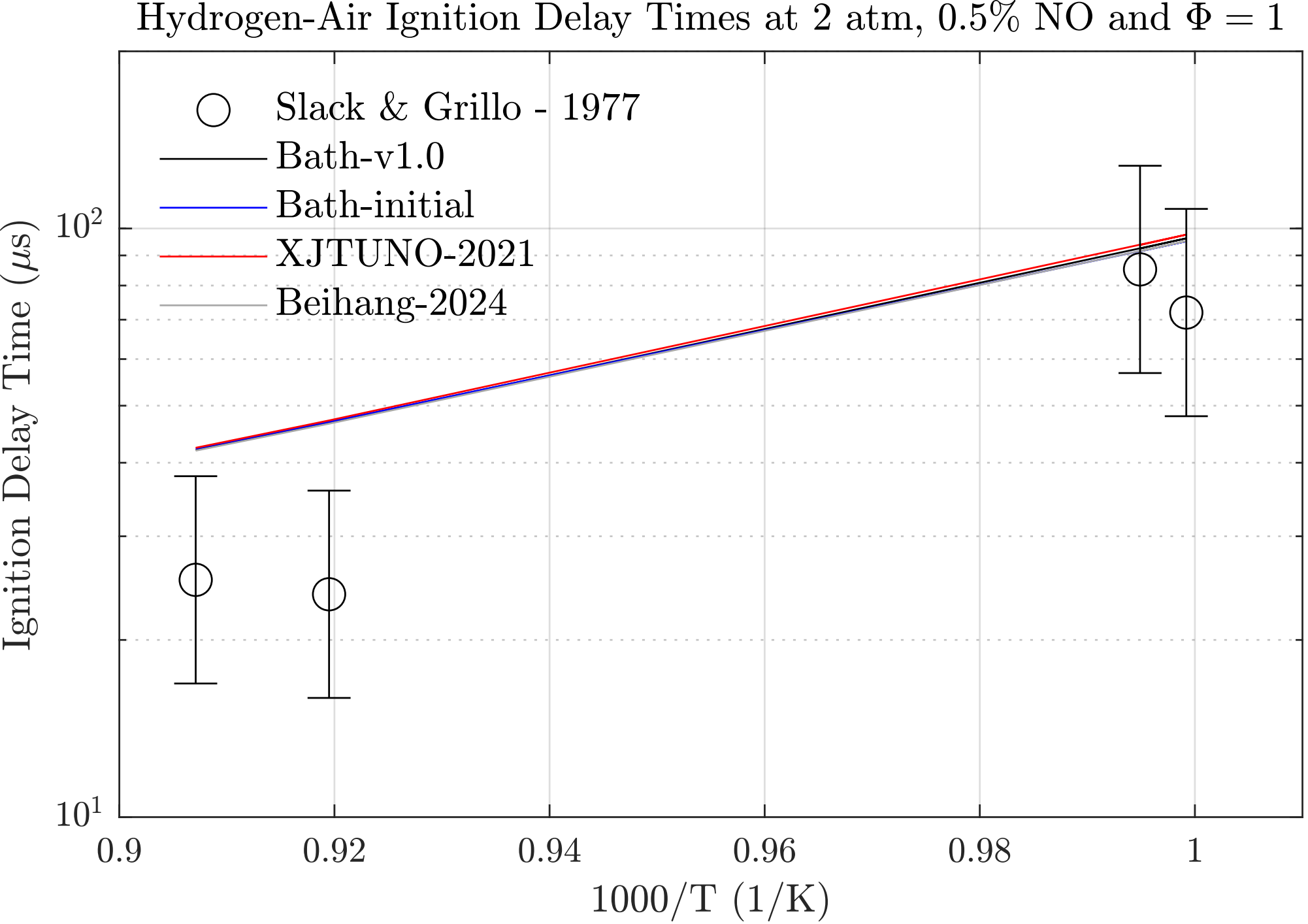
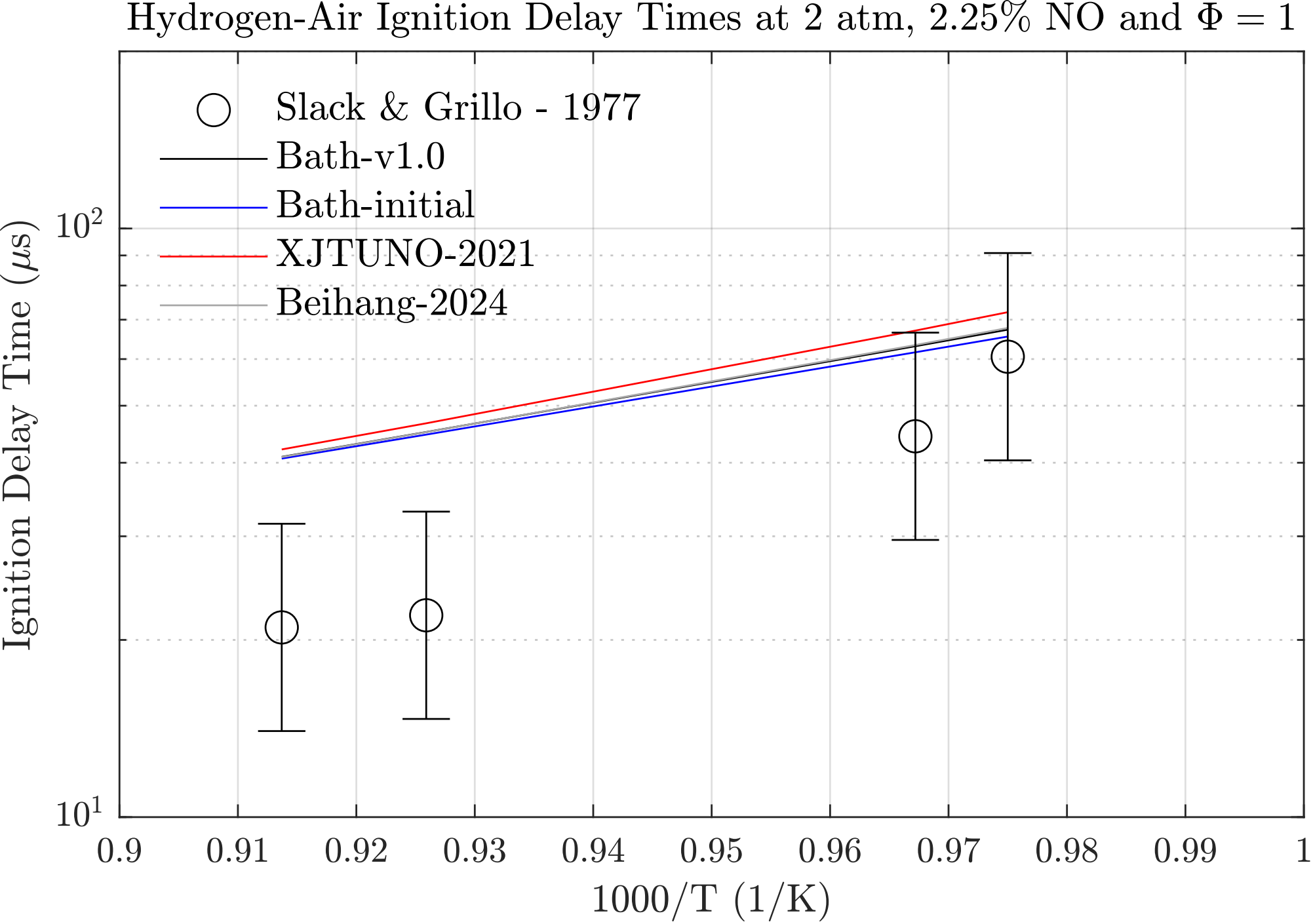
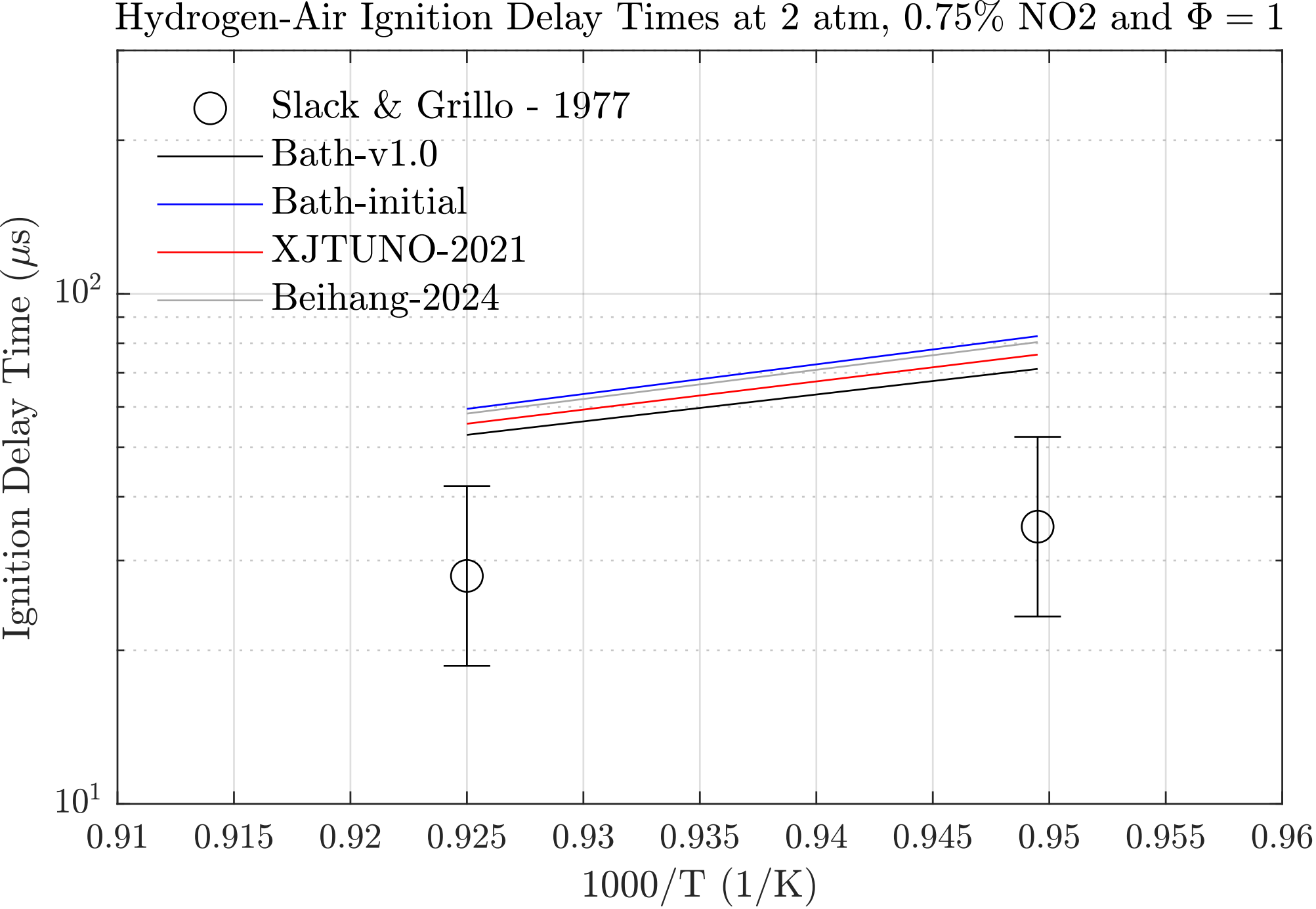
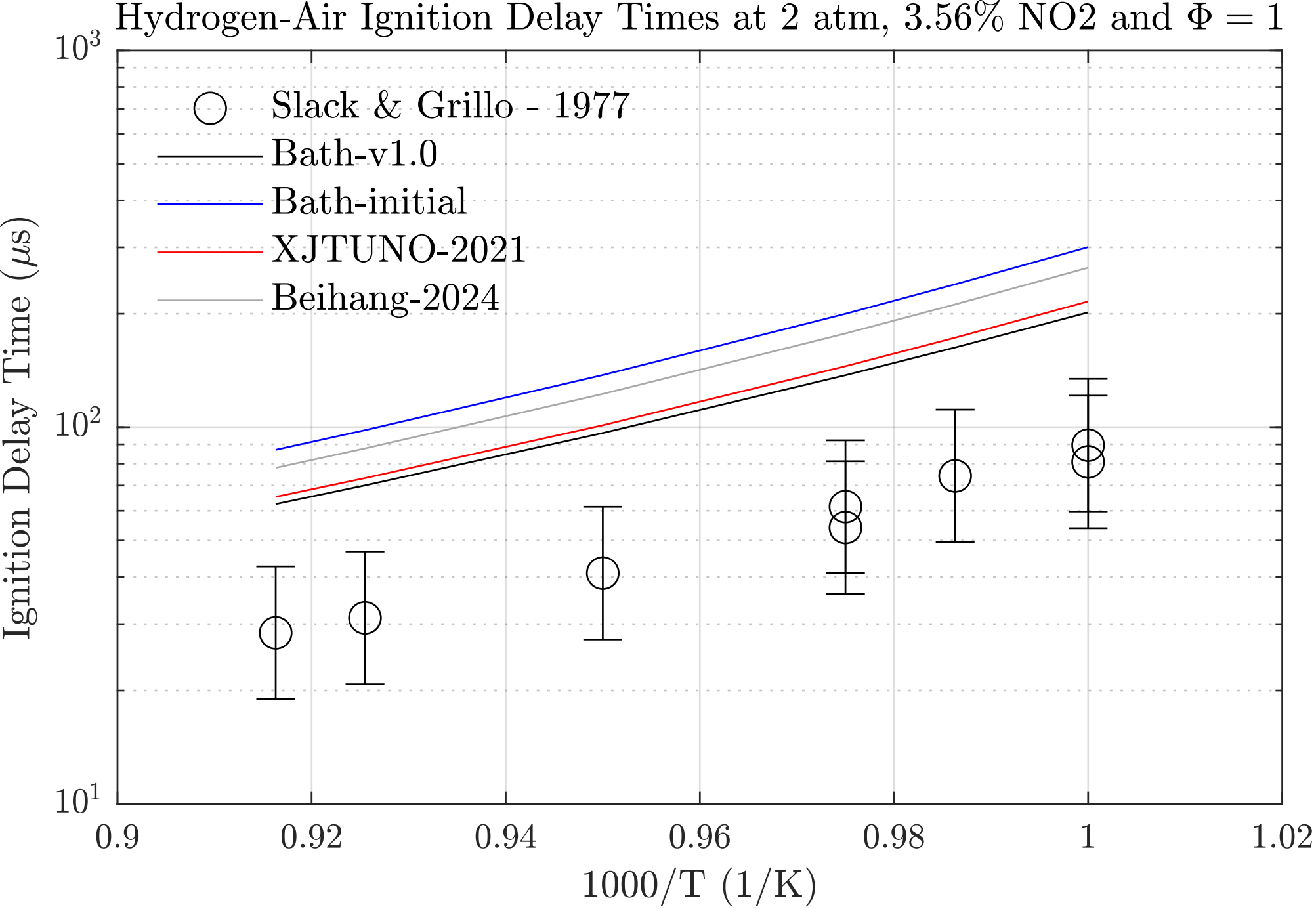

Hydrogen-Air Ignition Delay Times at 1 atm and Φ = 1
Slack & Grillo - 1977
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (μs)
10^3
10^2
10^1
0.75
0.8
0.85
0.9
0.95
1
1000/T (1/K)

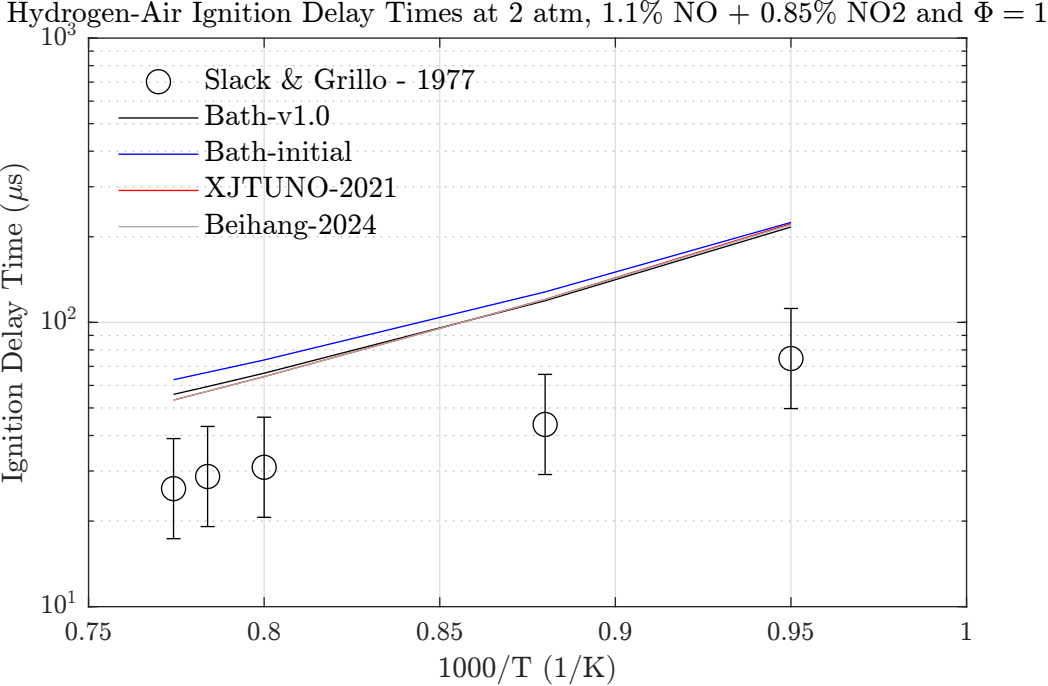

Hydrogen-Air Ignition Delay Times at 2 atm and Φ = 1
Slack & Grillo - 1977
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (μs)
10^3
10^2
10^1
0.8
0.85
0.9
0.95
1
1.05
1000/T (1/K)

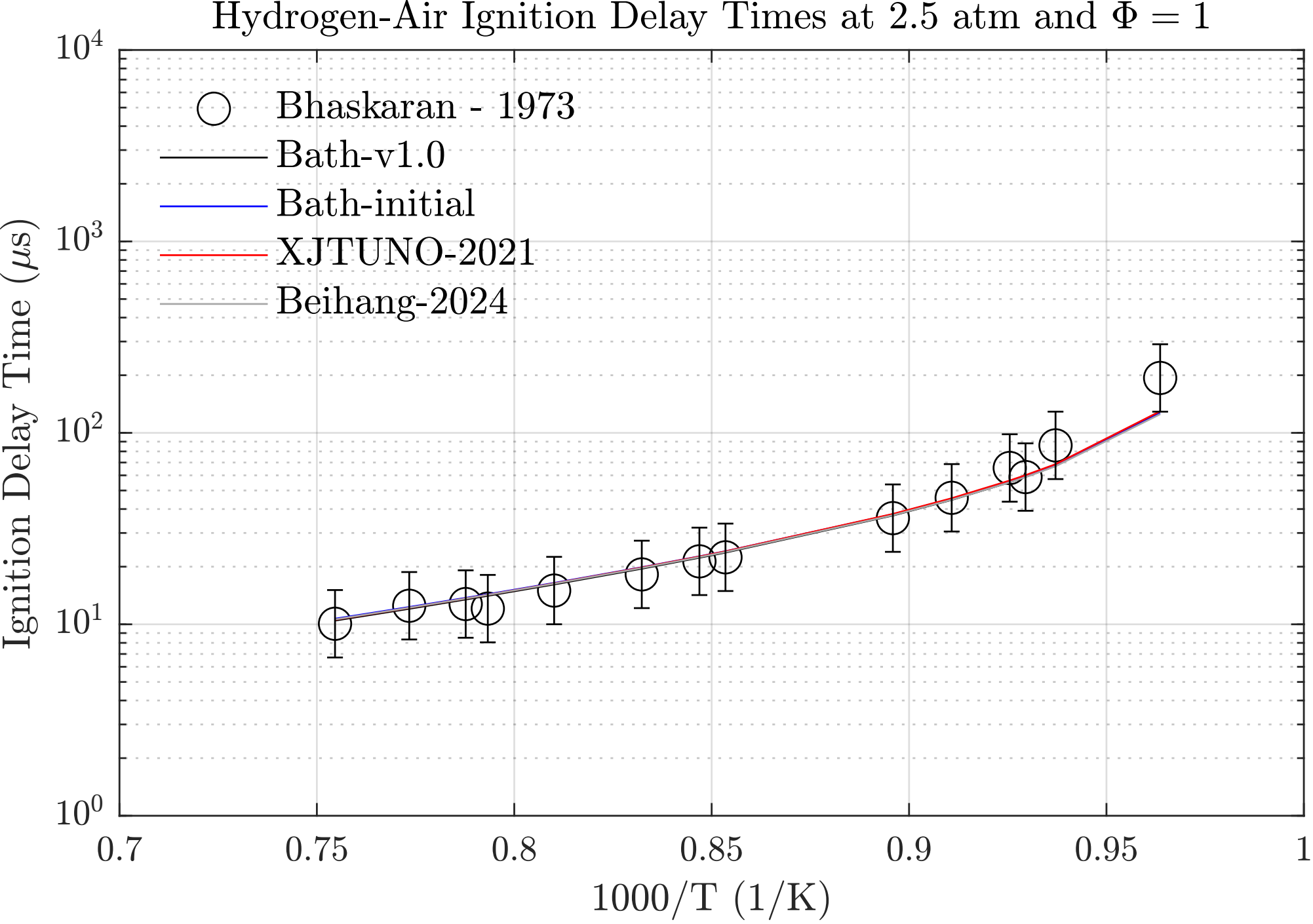

Hydrogen-Air Ignition Delay Times at 2 atm, 0.5% NO and Φ = 1
Slack & Grillo - 1977
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (μs)
10^2
10^1
0.9
0.92
0.94
0.96
0.98
1
1000/T (1/K)

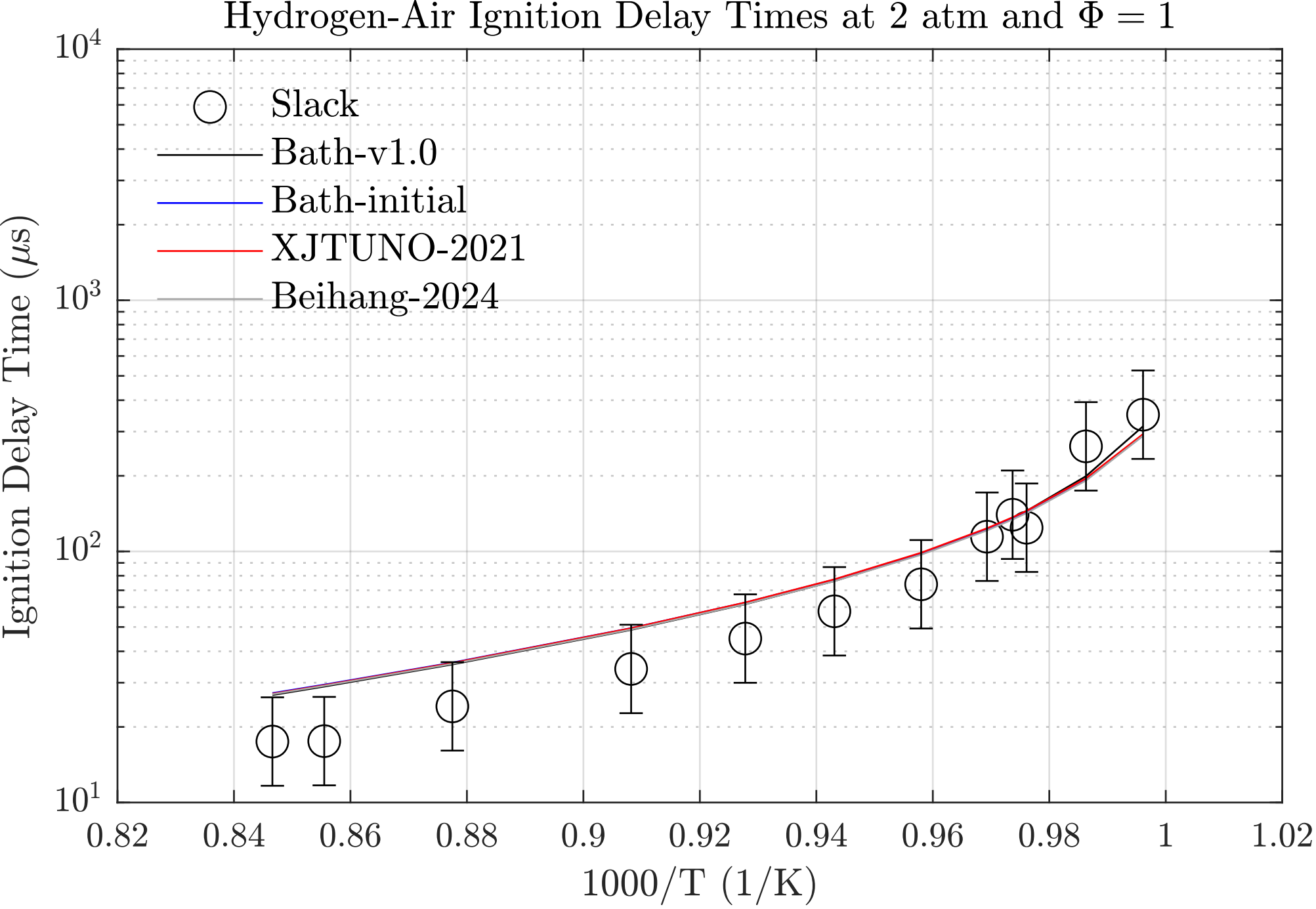

Hydrogen-Air Ignition Delay Times at 2 atm, 2.25% NO and Φ = 1
Slack & Grillo - 1977
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (μs)
10^2
10^1
0.9
0.91
0.92
0.93
0.94
0.95
0.96
0.97
0.98
0.99
1
1000/T (1/K)

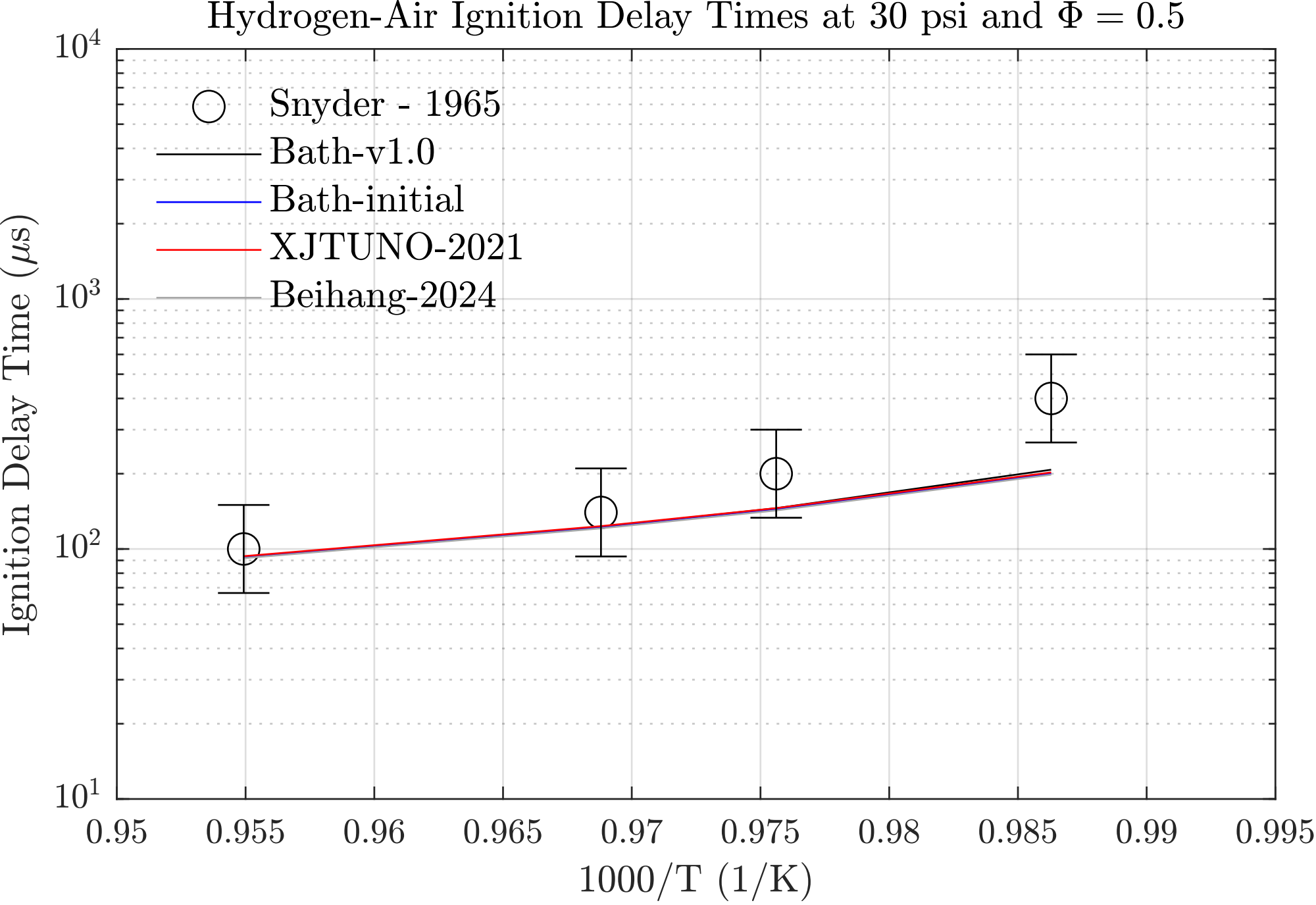

Hydrogen-Air Ignition Delay Times at 2 atm, 0.75% NO2 and Φ = 1
Slack & Grillo - 1977
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (μs)
10^2
10^1
0.91
0.915
0.92
0.925
0.93
0.935
0.94
0.945
0.95
0.955
0.96
1000/T (1/K)

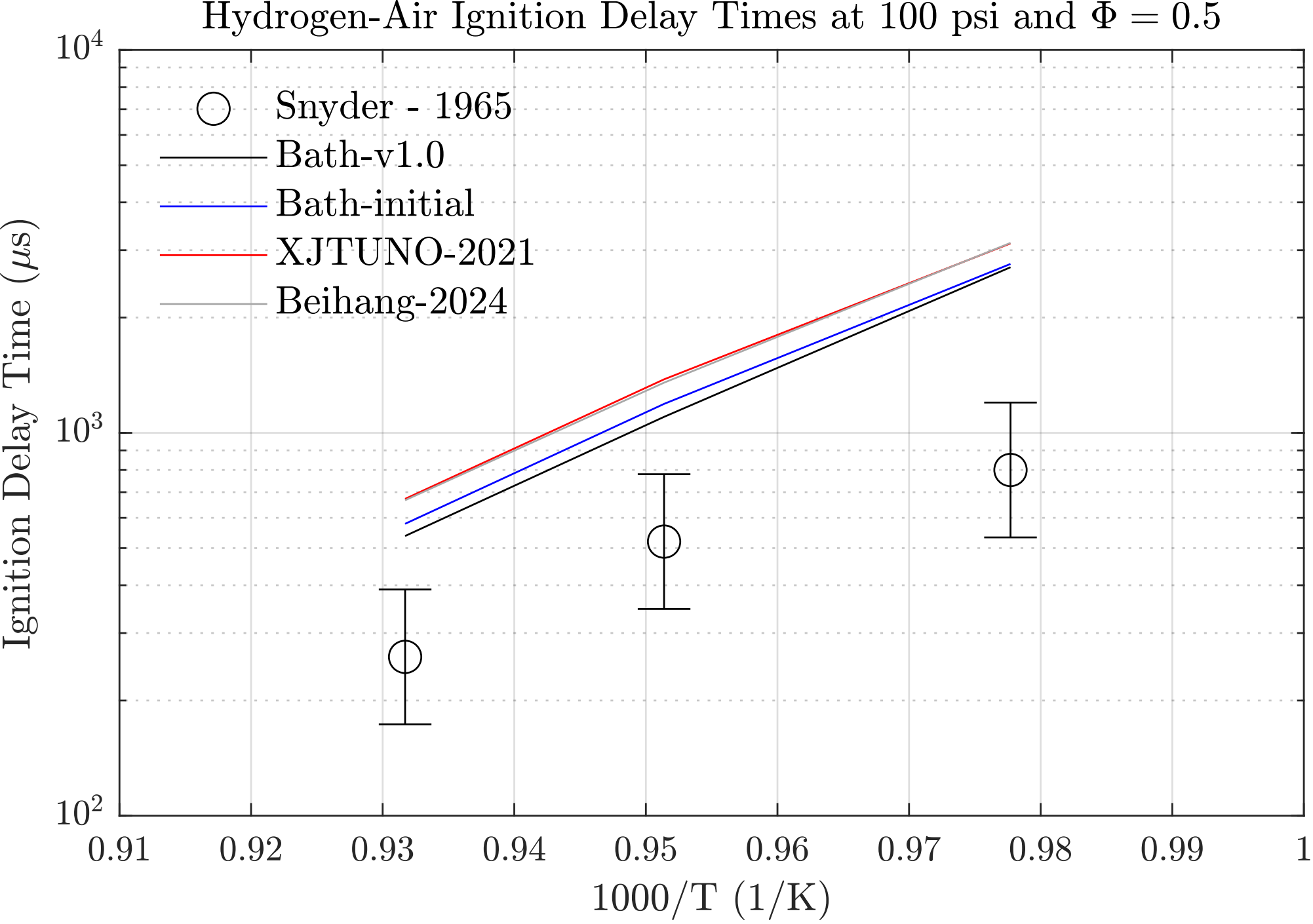

Hydrogen-Air Ignition Delay Times at 2 atm, 3.56% NO2 and Φ = 1
Slack & Grillo - 1977
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (μs)
1000/T (1/K)
10^3
10^2
10^1
0.9
0.92
0.94
0.96
0.98
1
1.02

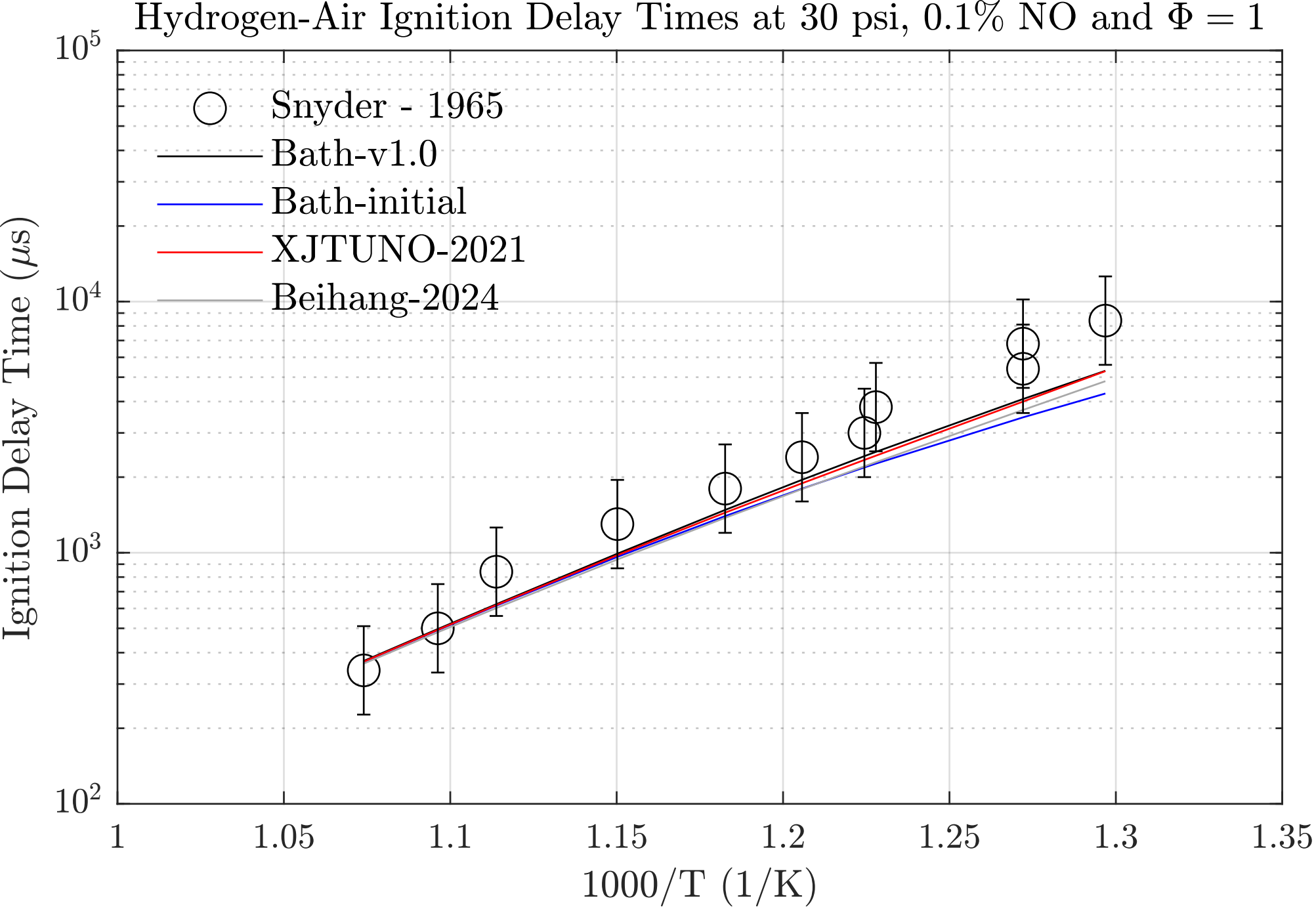

Hydrogen-Air Ignition Delay Times at 2 atm, 1.1% NO + 0.85% NO2 and Φ = 1
Slack & Grillo - 1977
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (μs)
10^3
10^2
10^1
0.75
0.8
0.85
0.9
0.95
1
1000/T (1/K)

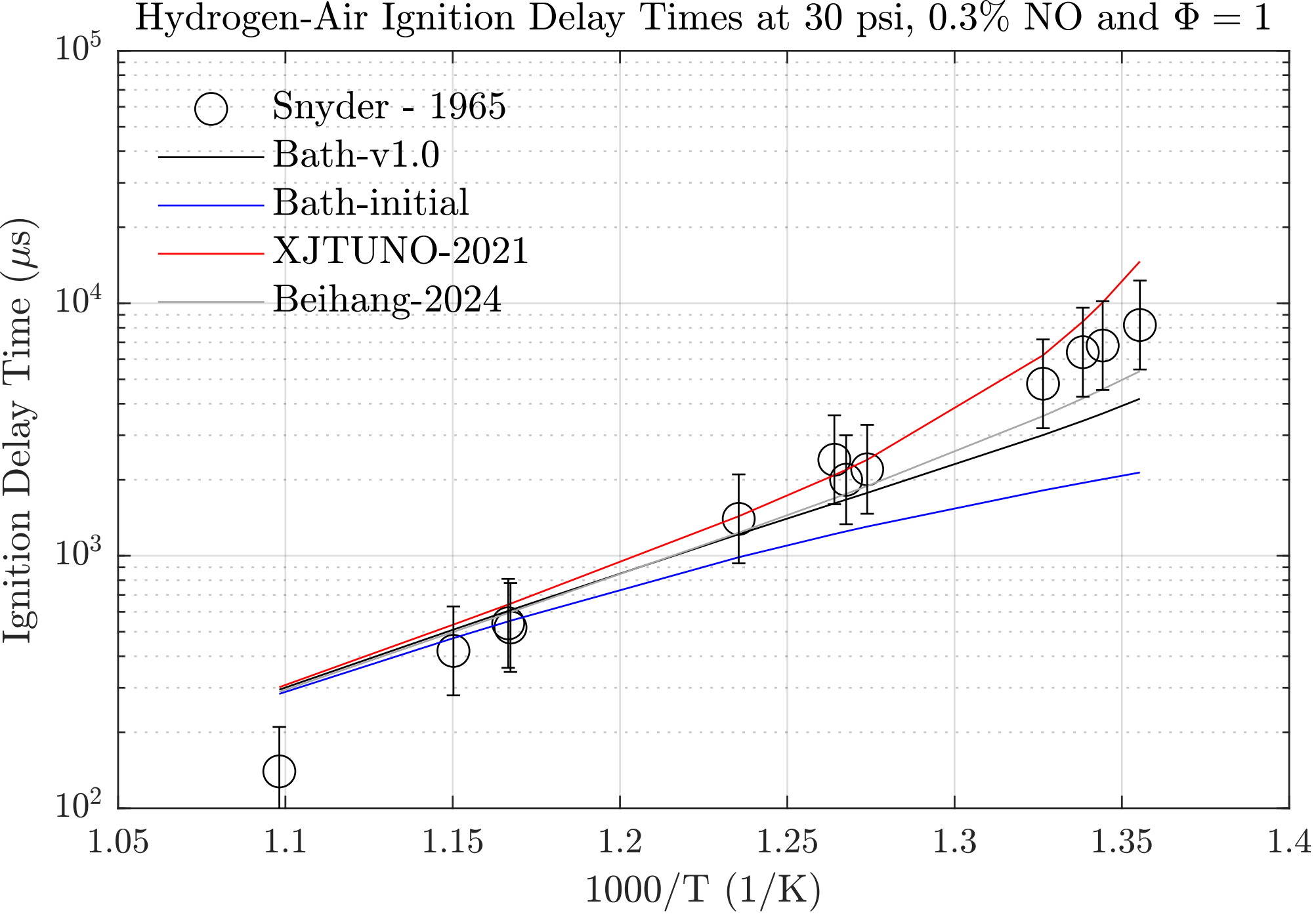

Hydrogen-Air Ignition Delay Times at 2.5 atm and Φ = 1
Bhaskaran - 1973
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (μs)
10^4
10^3
10^2
10^1
10^0
0.7
0.75
0.8
0.85
0.9
0.95
1
1000/T (1/K)

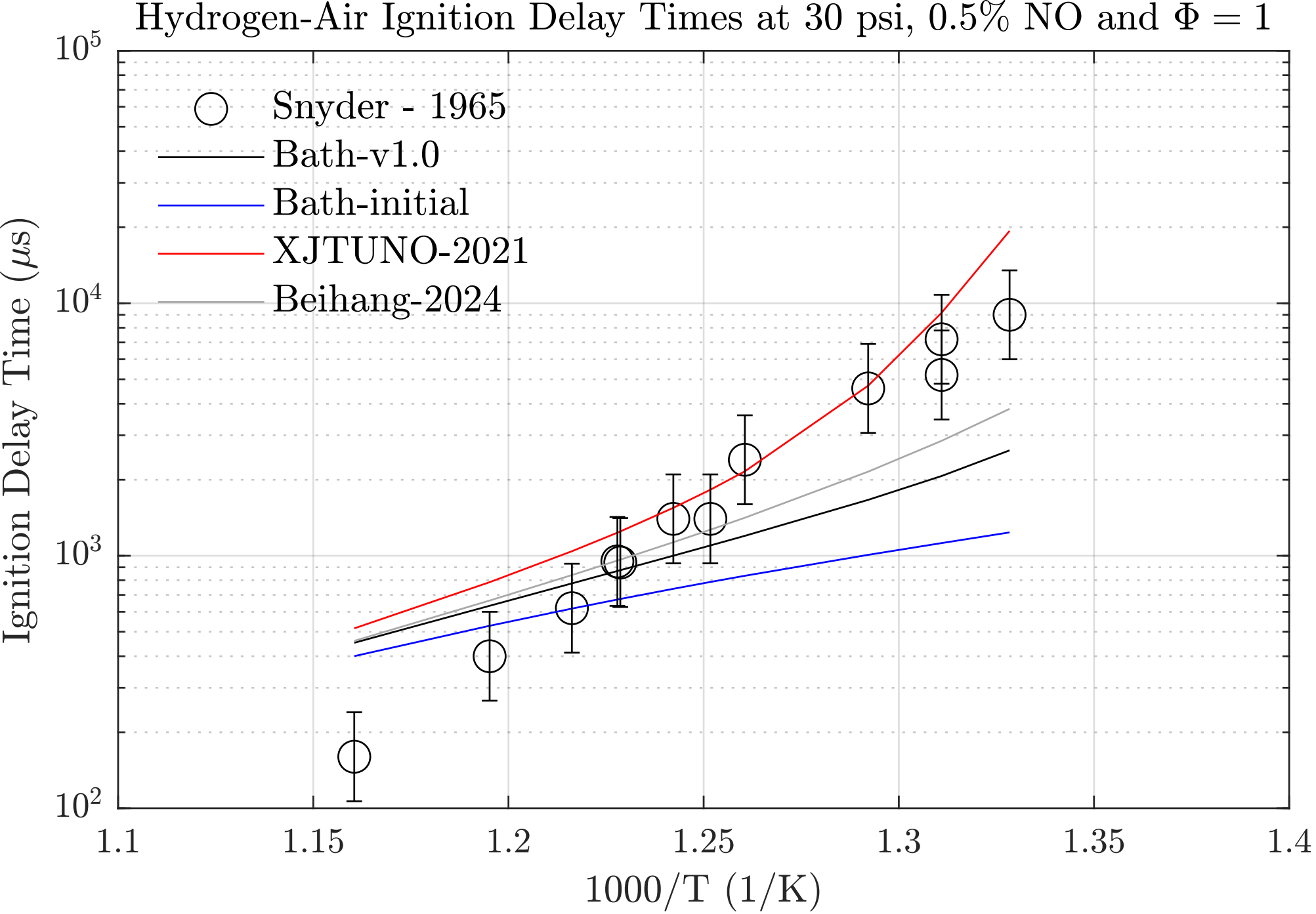

Hydrogen-Air Ignition Delay Times at 2 atm and Φ = 1
Slack
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (μs)
10^4
10^3
10^2
10^1
0.82
0.84
0.86
0.88
0.9
0.92
0.94
0.96
0.98
1
1.02
1000/T (1/K)

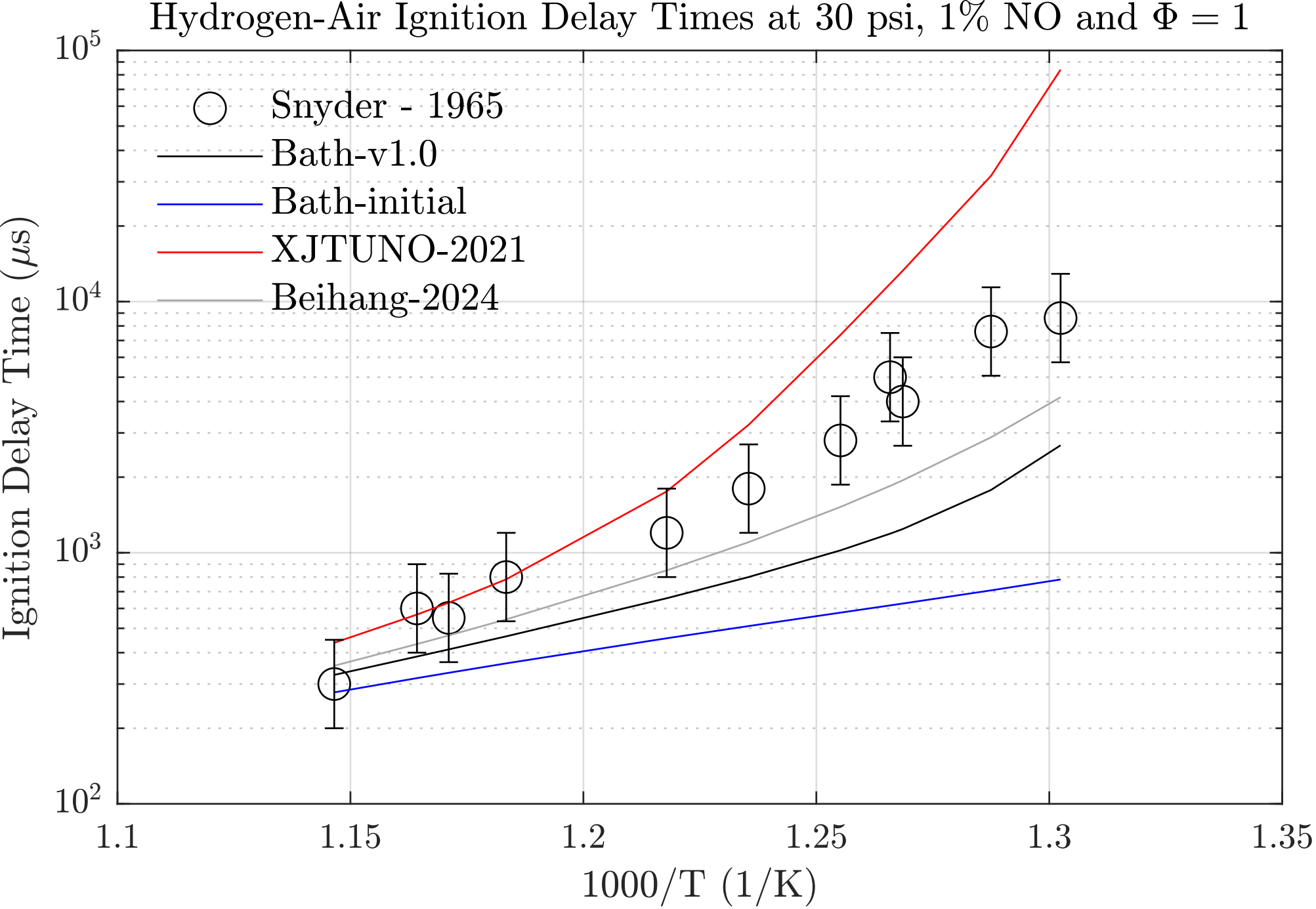

Hydrogen-Air Ignition Delay Times at 30 psi and Φ = 0.5
Snyder - 1965
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (μs)
10^4
10^3
10^2
10^1
0.95
0.955
0.96
0.965
0.97
0.975
0.98
0.985
0.99
0.995
1000/T (1/K)

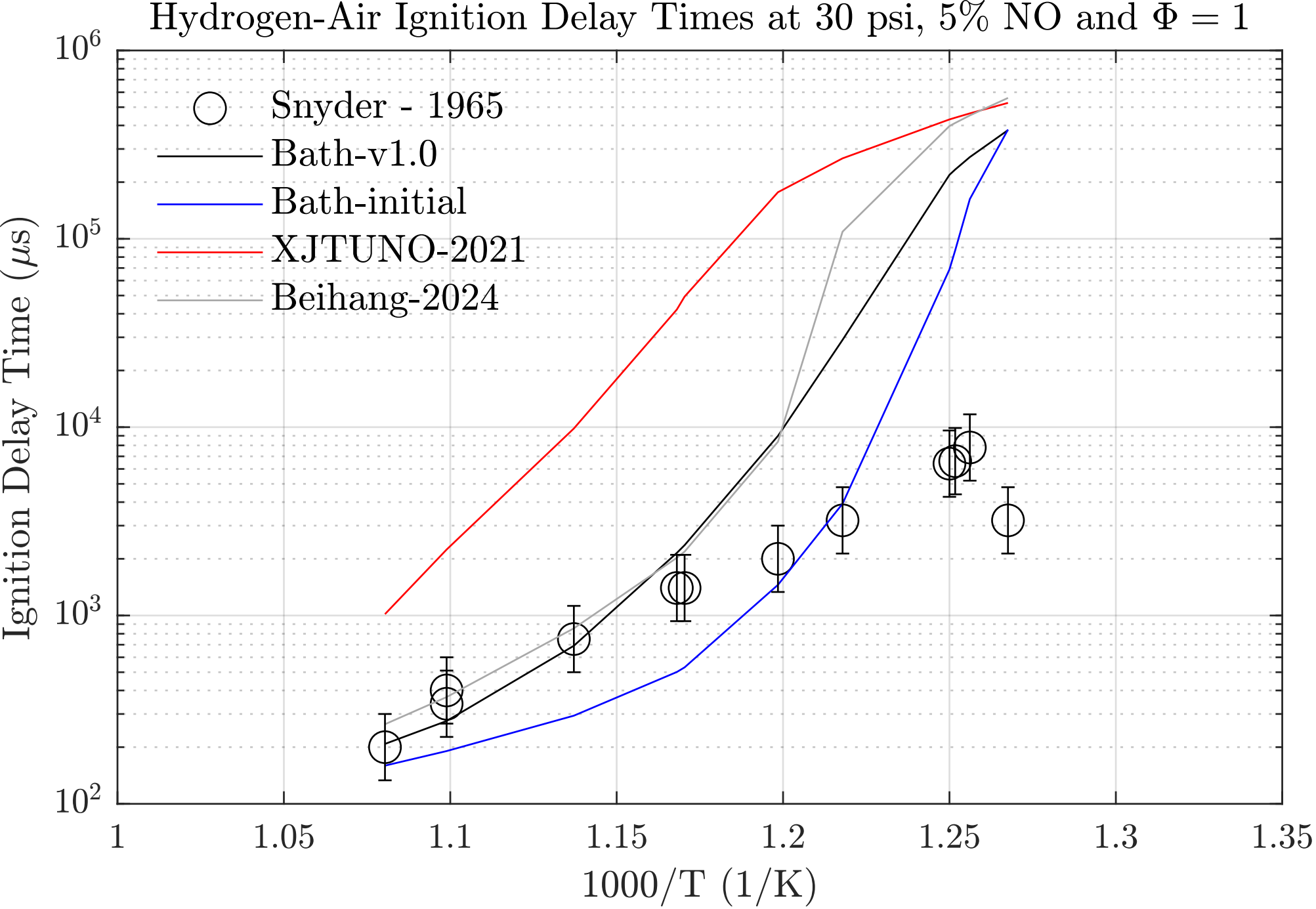

Hydrogen-Air Ignition Delay Times at 100 psi and Φ = 0.5
Snyder - 1965
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (μs)
10^4
10^3
10^2
0.91
0.92
0.93
0.94
0.95
0.96
0.97
0.98
0.99
1
1000/T (1/K)

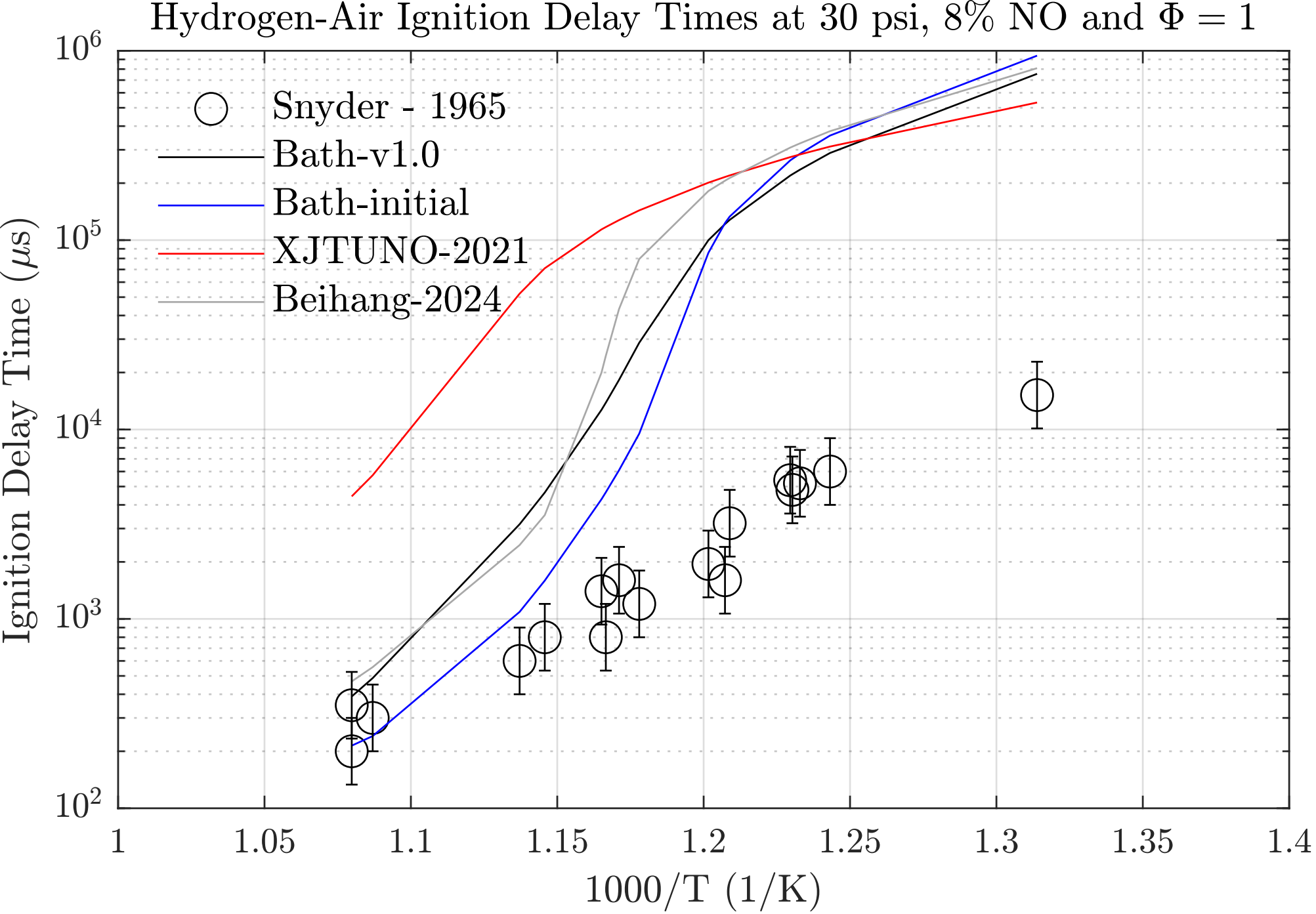

Hydrogen-Air Ignition Delay Times at 30 psi, 0.1% NO and Φ = 1
Snyder - 1965
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (μs)
1000/T (1/K)
10^5
10^4
10^3
10^2
1
1.05
1.1
1.15
1.2
1.25
1.3
1.35

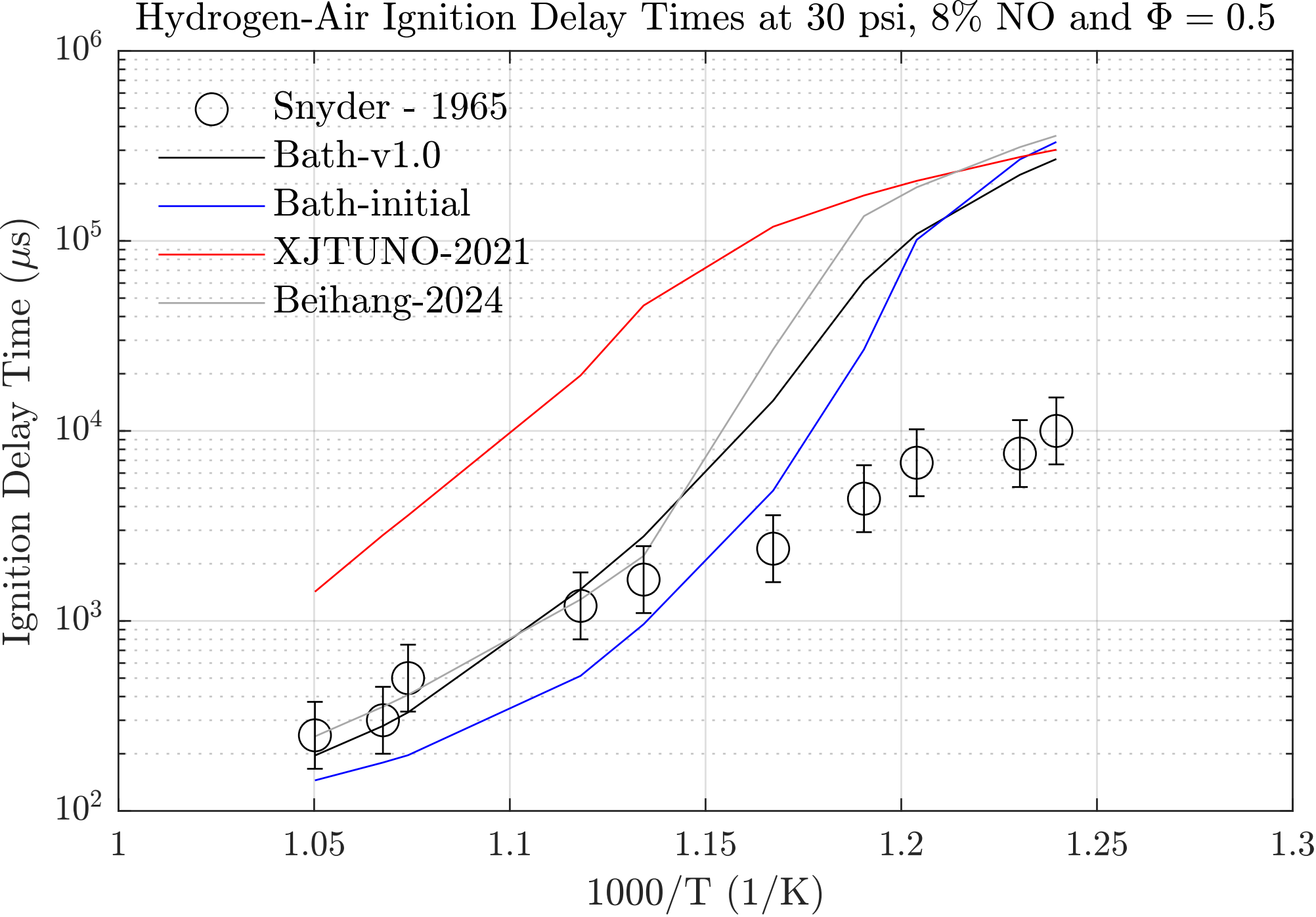

Hydrogen-Air Ignition Delay Times at 30 psi, 0.3% NO and Φ = 1
Snyder - 1965
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (μs)
10^5
10^4
10^3
10^2
1.05
1.1
1.15
1.2
1.25
1.3
1.35
1.4
1000/T (1/K)

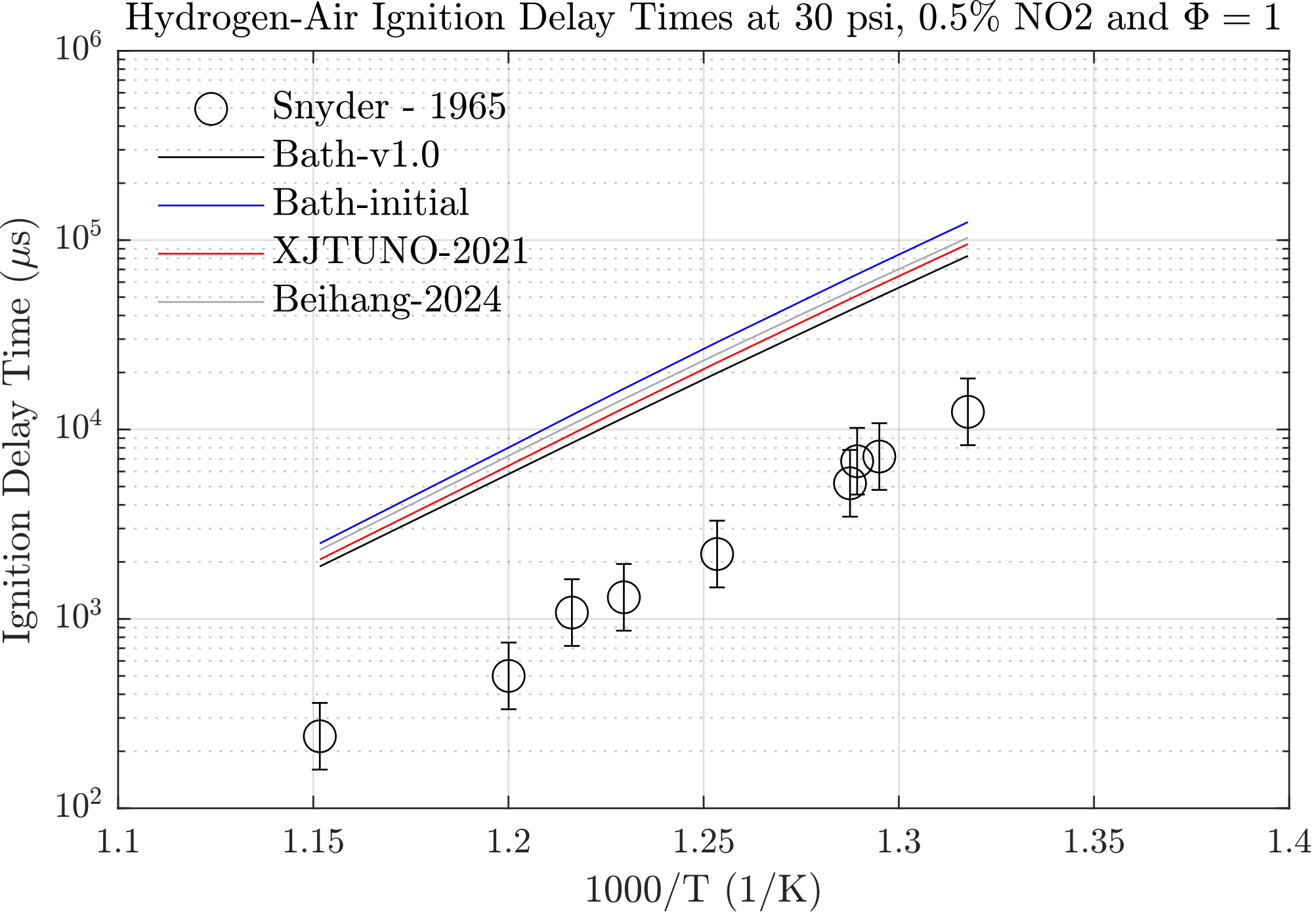

Hydrogen-Air Ignition Delay Times at 30 psi, 0.5% NO and Φ = 1
Snyder - 1965
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (μs)
10^5
10^4
10^3
10^2
1.1
1.15
1.2
1.25
1.3
1.35
1.4
1000/T (1/K)

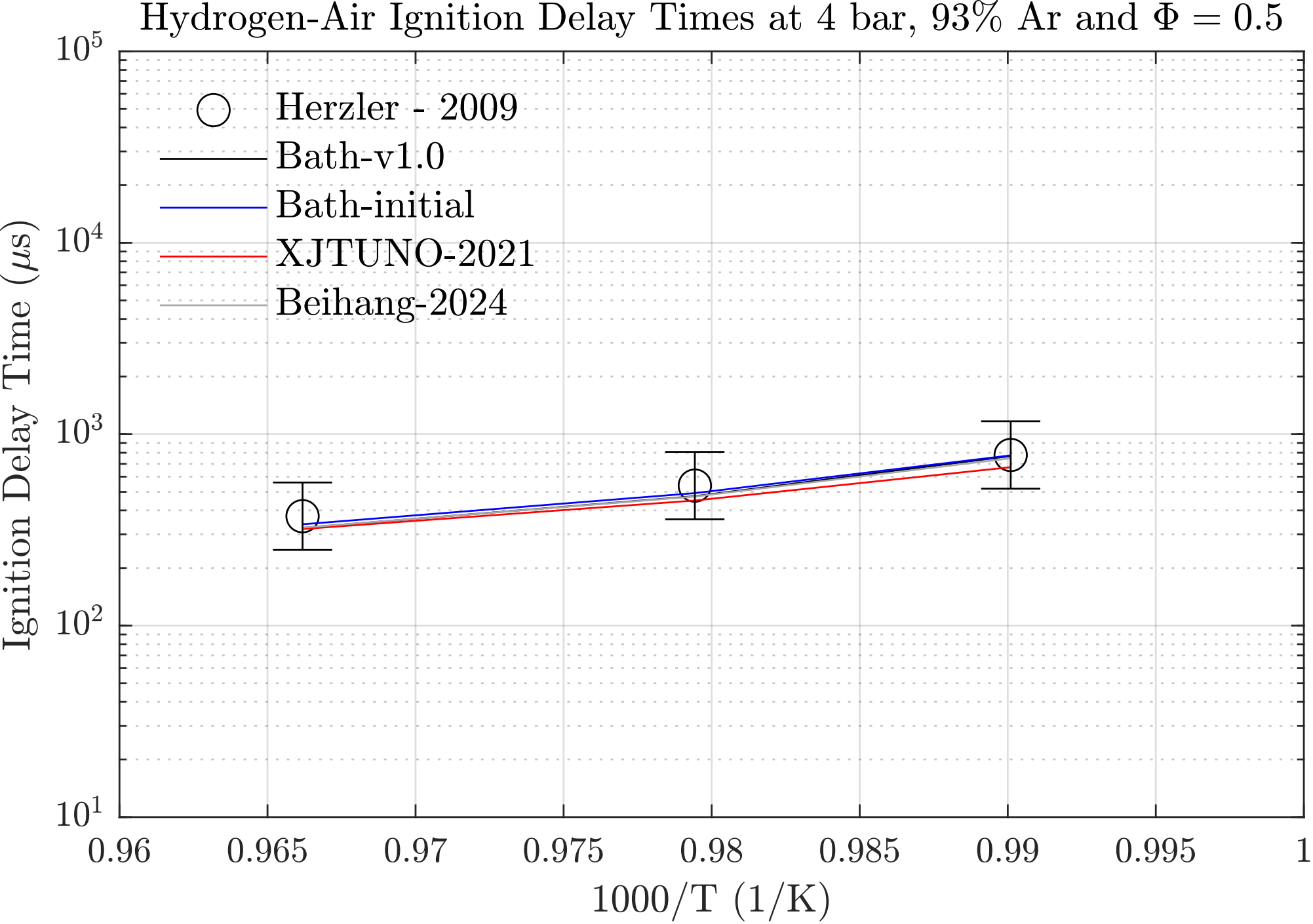

Hydrogen-Air Ignition Delay Times at 30 psi, 1% NO and Φ = 1
Snyder - 1965
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (μs)
1000/T (1/K)
10^5
10^4
10^3
10^2
1.1
1.15
1.2
1.25
1.3
1.35

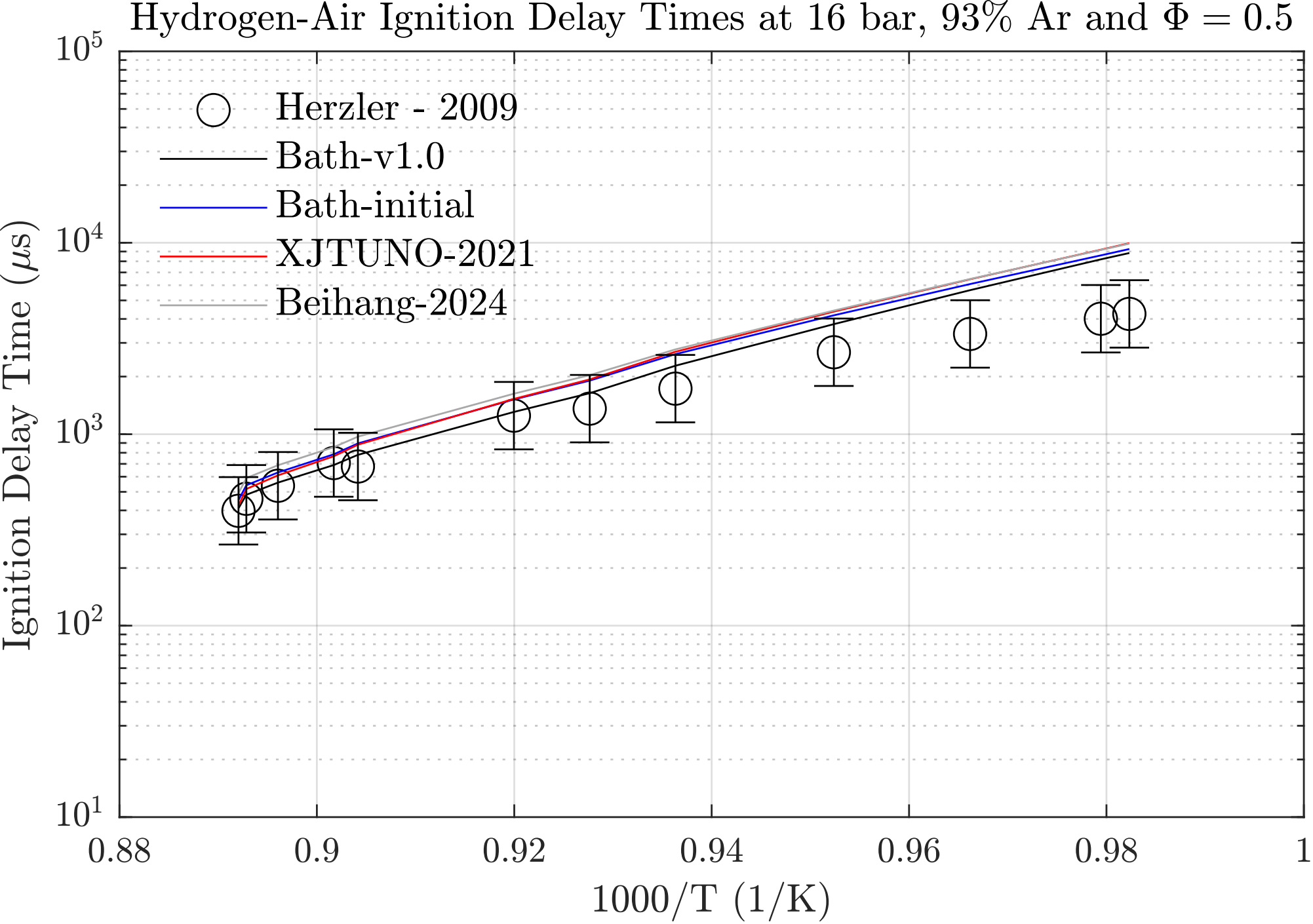

Hydrogen-Air Ignition Delay Times at 30 psi, 5% NO and Φ = 1
Snyder - 1965
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (μs)
1000/T (1/K)
10^6
10^5
10^4
10^3
10^2
1
1.05
1.1
1.15
1.2
1.25
1.3
1.35

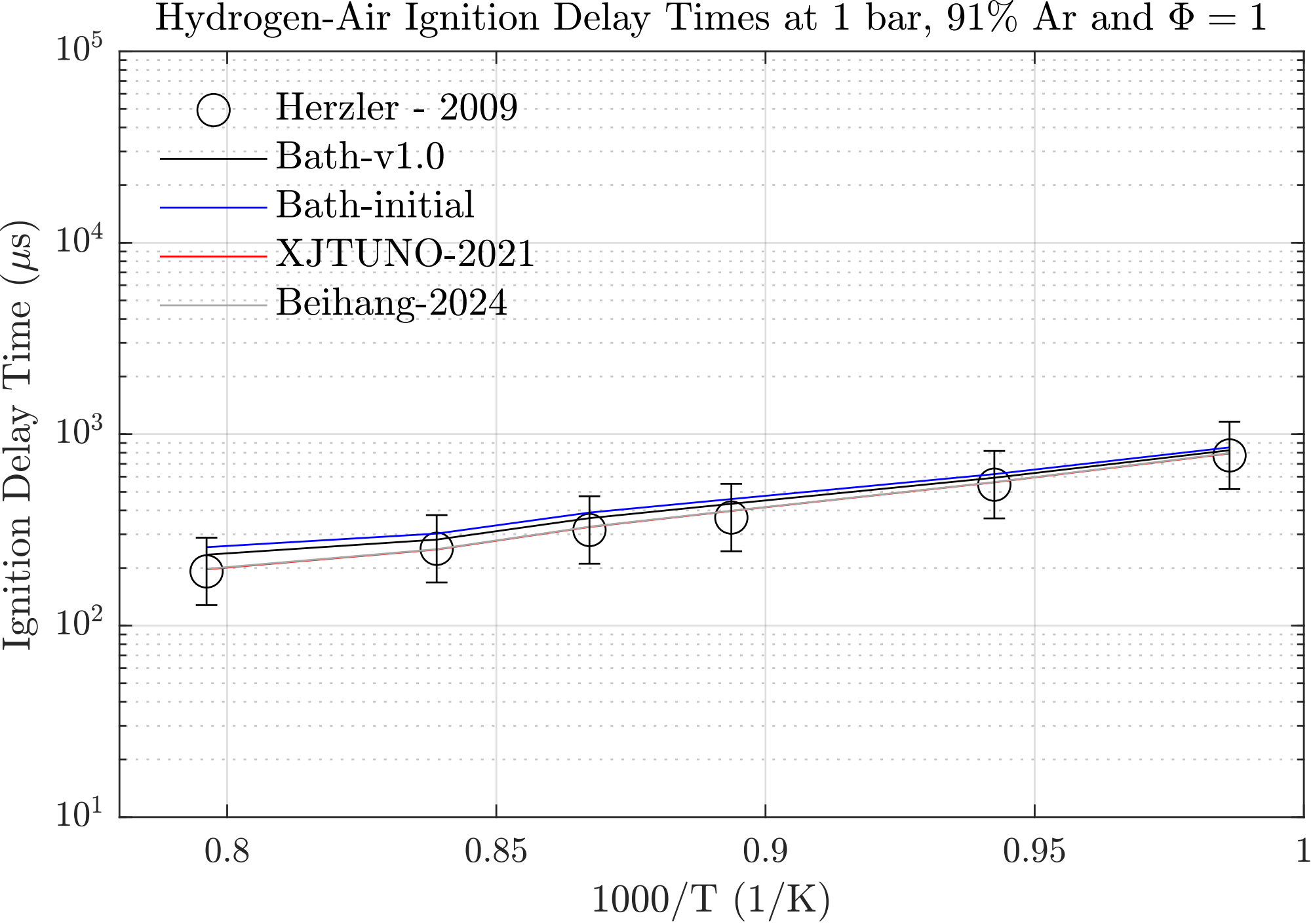

Hydrogen-Air Ignition Delay Times at 30 psi, 8% NO and Φ = 1
Snyder - 1965
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (μs)
1000/T (1/K)
10^6
10^5
10^4
10^3
10^2
1
1.05
1.1
1.15
1.2
1.25
1.3
1.35
1.4

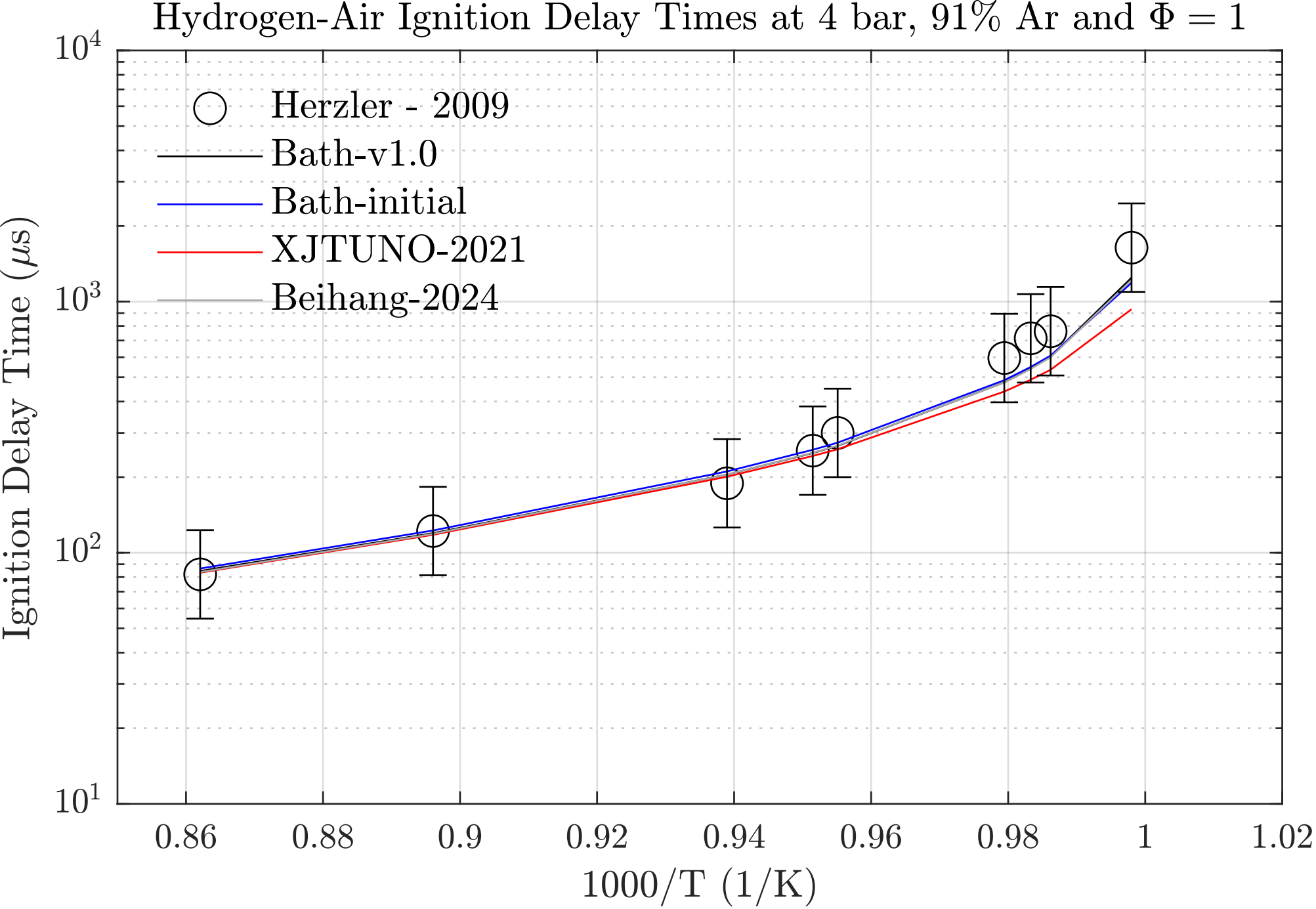

Hydrogen-Air Ignition Delay Times at 30 psi, 8% NO and Φ = 0.5
Snyder - 1965
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (μs)
10^6
10^5
10^4
10^3
10^2
1
1.05
1.1
1.15
1.2
1.25
1.3
1000/T (1/K)

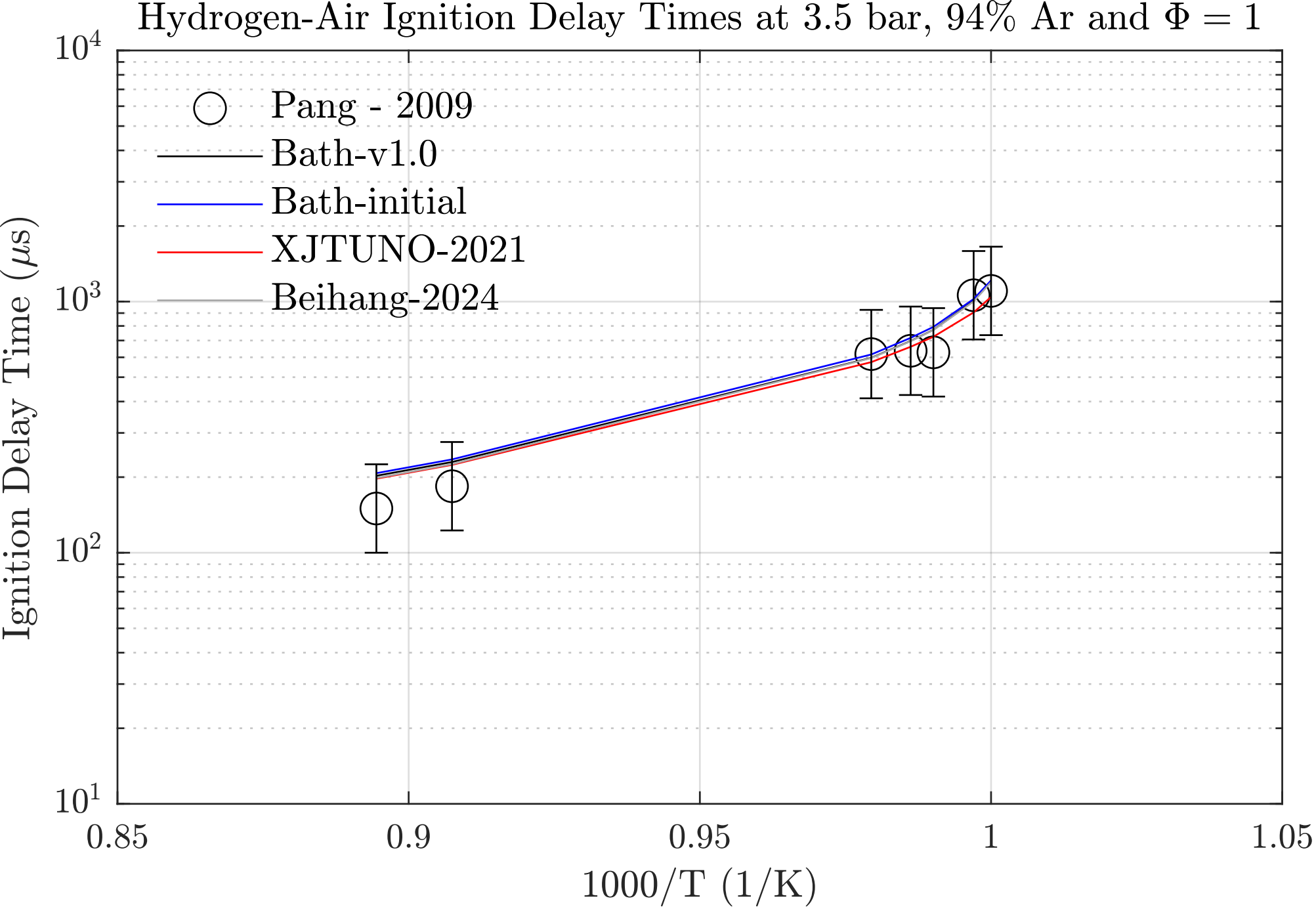

Hydrogen-Air Ignition Delay Times at 30 psi, 0.5% NO2 and Φ = 1
Snyder - 1965
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (μs)
1000/T (1/K)
10^6
10^5
10^4
10^3
10^2
1.1
1.15
1.2
1.25
1.3
1.35
1.4

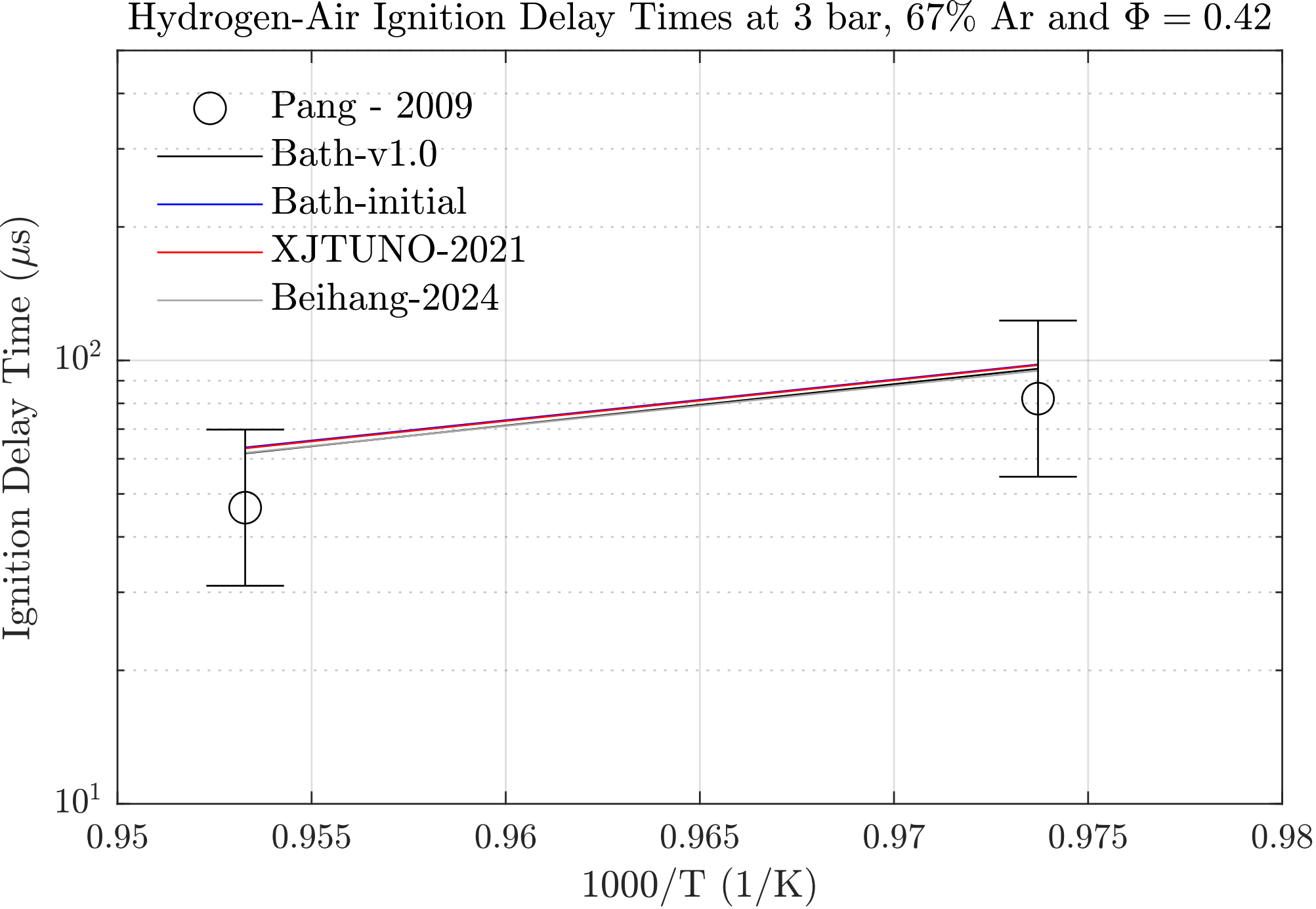

Hydrogen-Air Ignition Delay Times at 4 bar, 93% Ar and Φ = 0.5
Herzler - 2009
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (μs)
10^5
10^4
10^3
10^2
10^1
0.96
0.965
0.97
0.975
0.98
0.985
0.99
0.995
1
1000/T (1/K)

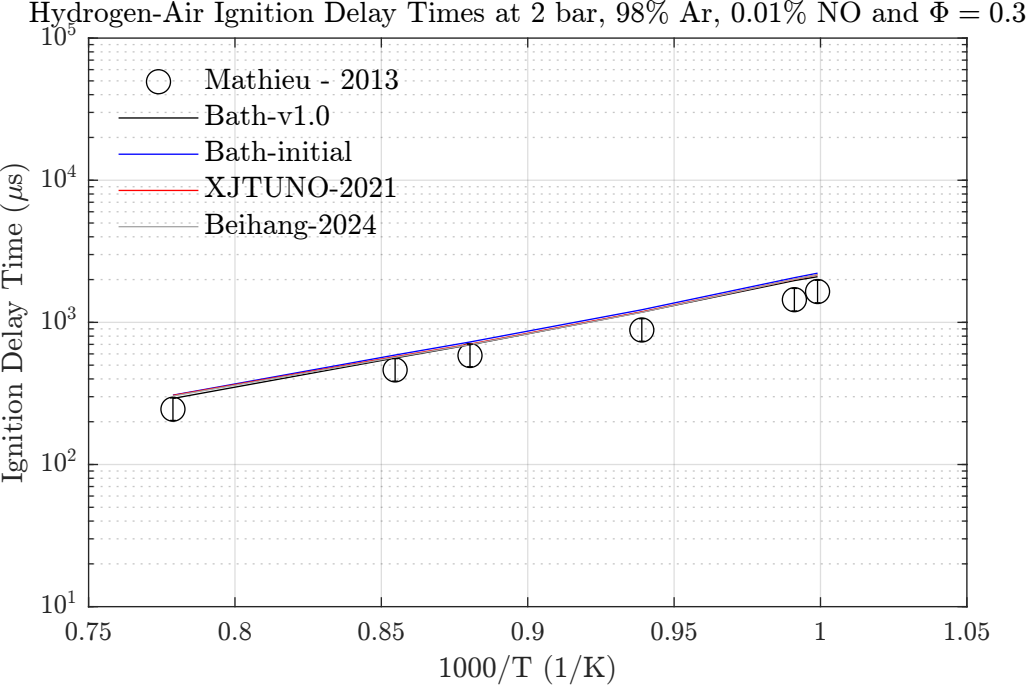

Hydrogen-Air Ignition Delay Times at 16 bar, 93% Ar and Φ = 0.5
Herzler - 2009
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (μs)
1000/T (1/K)
10^5
10^4
10^3
10^2
10^1
0.88
0.9
0.92
0.94
0.96
0.98
1

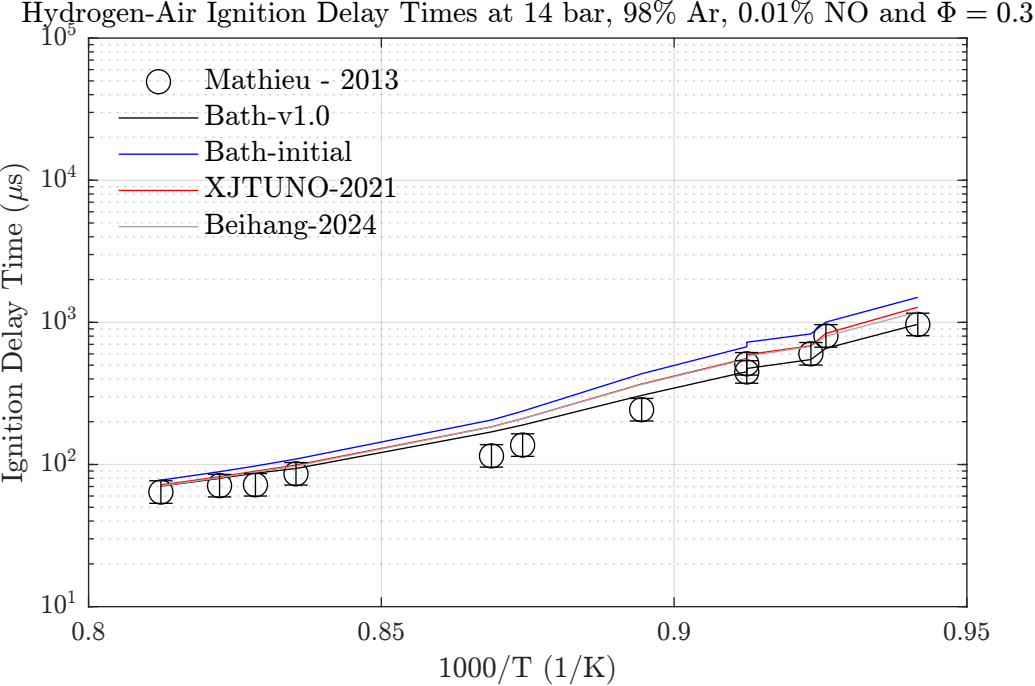

Hydrogen-Air Ignition Delay Times at 1 bar, 91% Ar and Φ = 1
Herzler - 2009
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (μs)
10^5
10^4
10^3
10^2
10^1
0.8
0.85
0.9
0.95
1
1000/T (1/K)

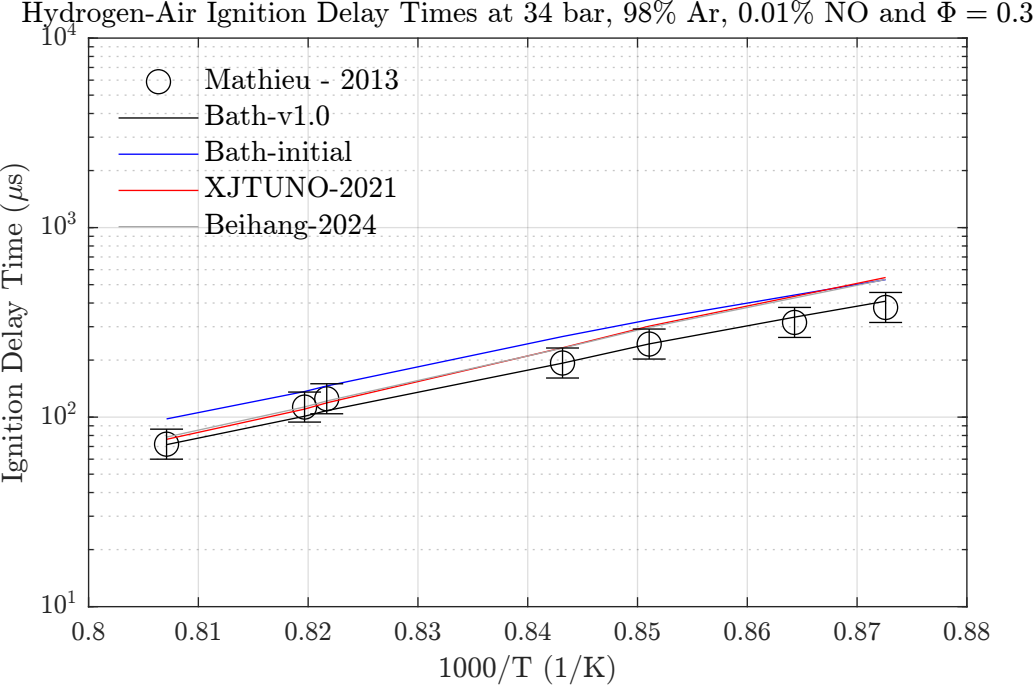

Hydrogen-Air Ignition Delay Times at 4 bar, 91% Ar and Φ = 1
Herzler - 2009
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (μs)
10^4
10^3
10^2
10^1
0.86
0.88
0.9
0.92
0.94
0.96
0.98
1
1.02
1000/T (1/K)

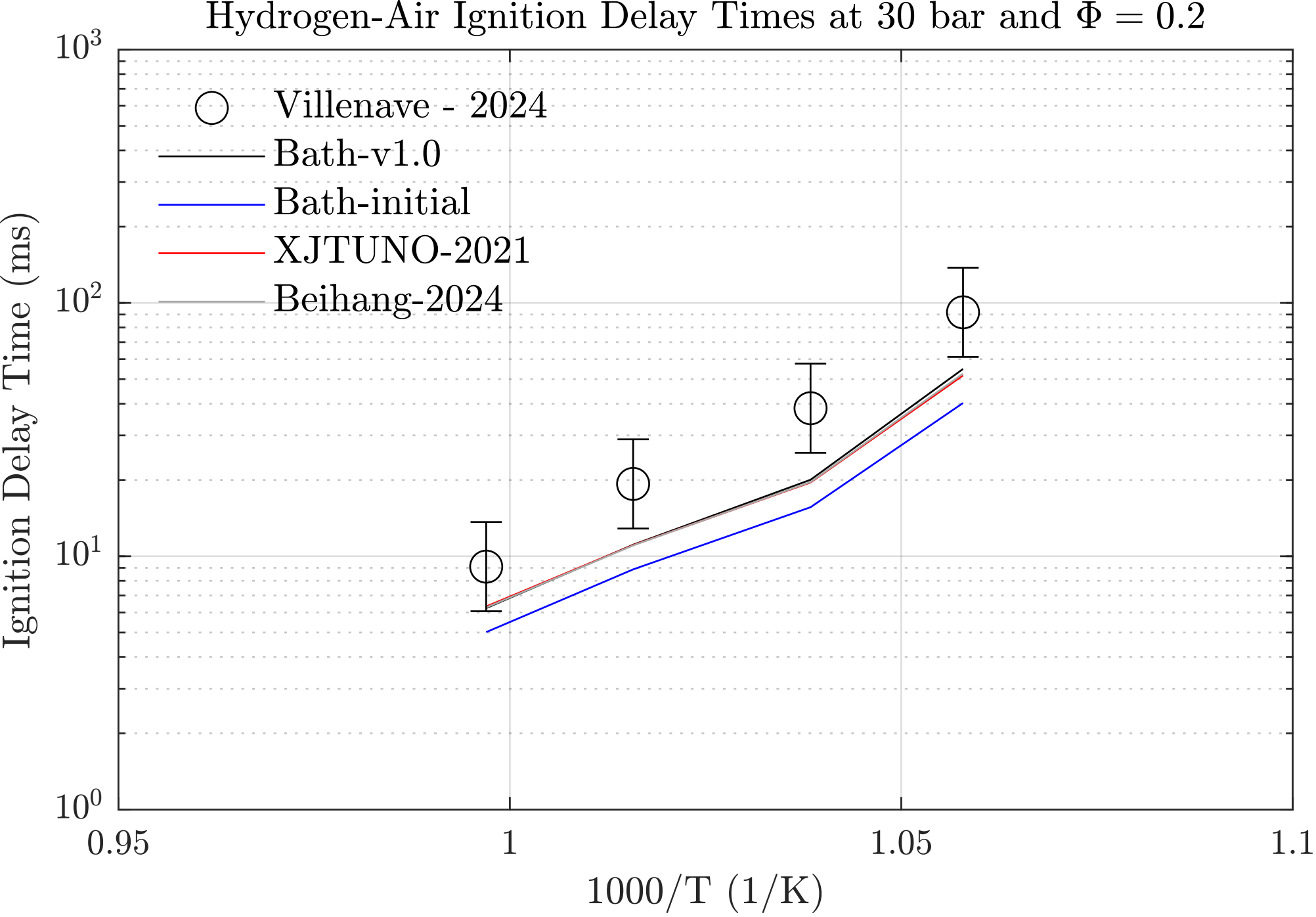

Hydrogen-Air Ignition Delay Times at 3.5 bar, 94% Ar and Φ = 1
Pang - 2009
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (μs)
10^4
10^3
10^2
10^1
0.85
0.9
0.95
1
1.05
1000/T (1/K)

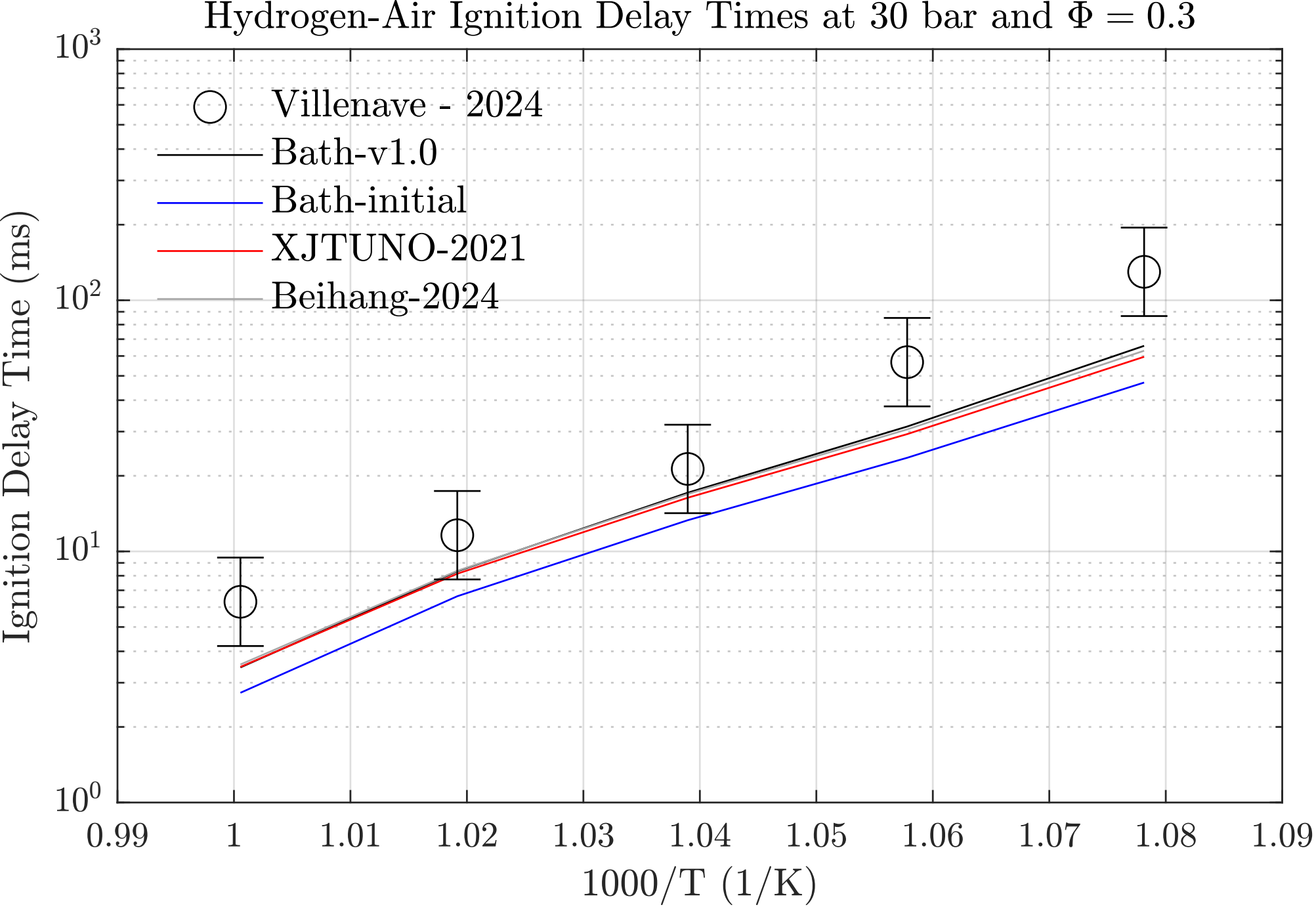

Hydrogen-Air Ignition Delay Times at 3 bar, 67% Ar and Φ = 0.42
Pang - 2009
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (μs)
10^2
10^1
0.95
0.955
0.96
0.965
0.97
0.975
0.98
1000/T (1/K)

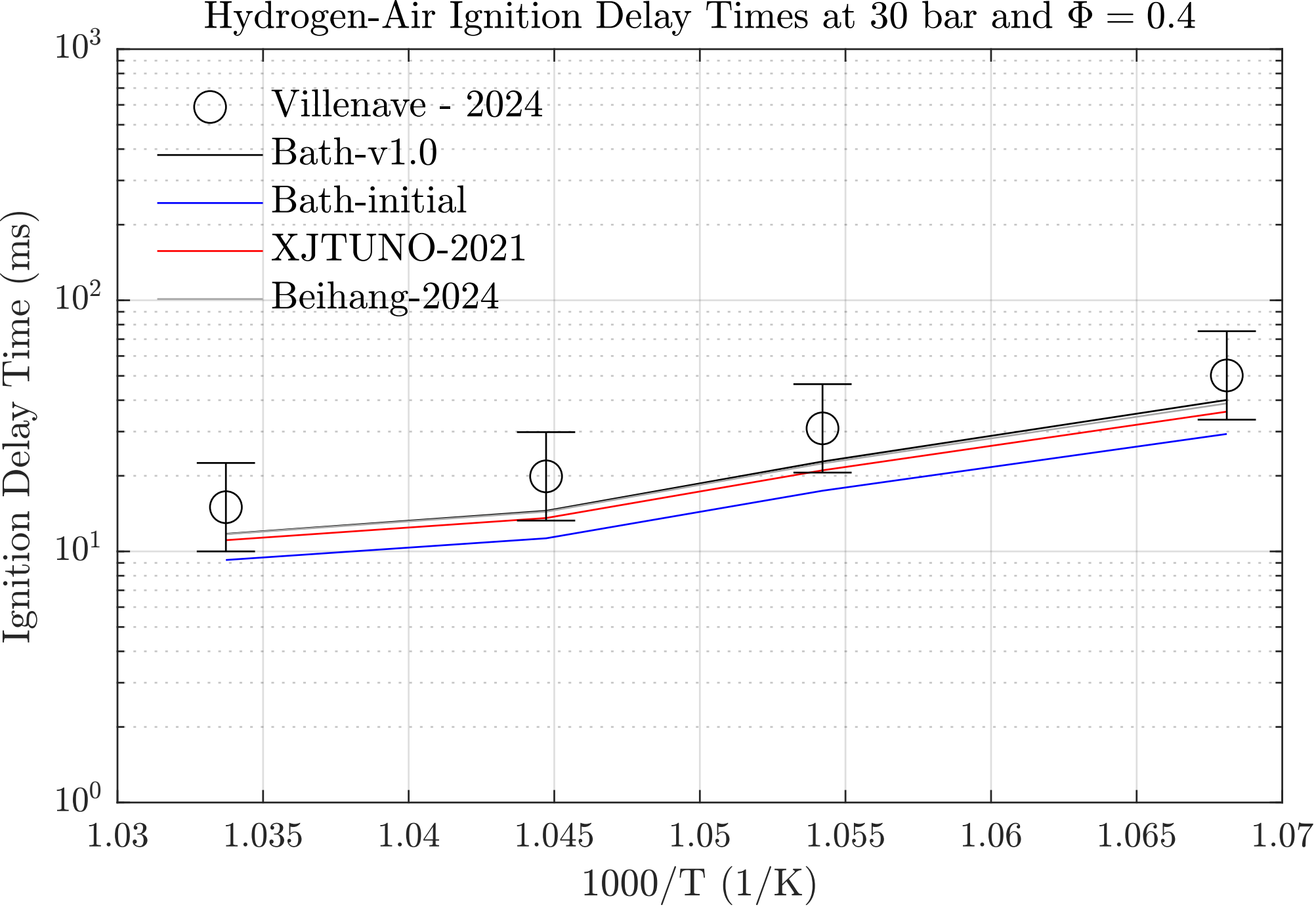

Hydrogen-Air Ignition Delay Times at 2 bar, 98% Ar, 0.01% NO and Φ = 0.3
Mathieu - 2013
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (μs)
1000/T (1/K)
10^5
10^4
10^3
10^2
10^1
0.75
0.8
0.85
0.9
0.95
1
1.05

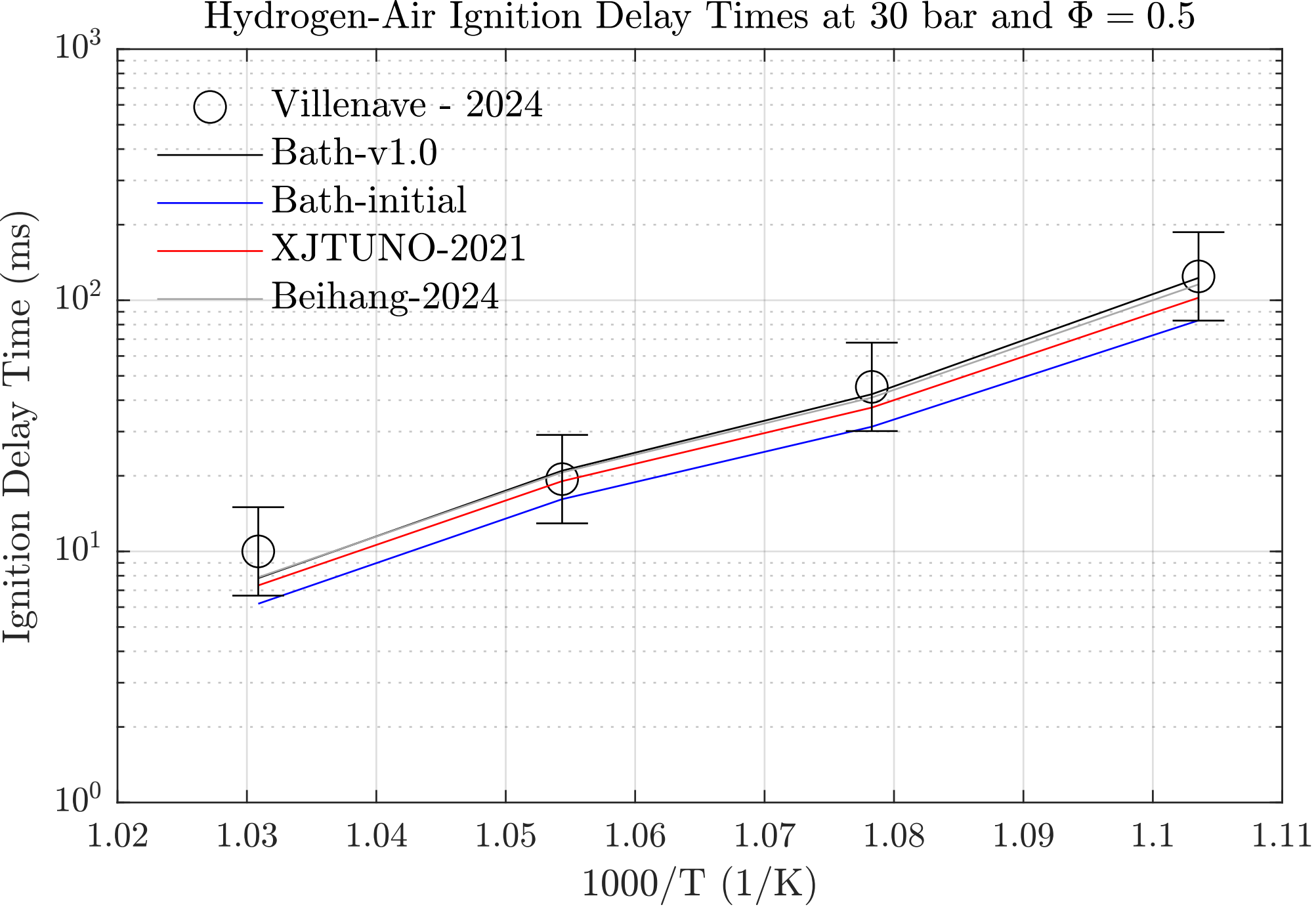

Hydrogen-Air Ignition Delay Times at 14 bar, 98% Ar, 0.01% NO and Φ = 0.3
Mathieu - 2013
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (μs)
1000/T (1/K)
10^5
10^4
10^3
10^2
10^1
0.8
0.85
0.9
0.95

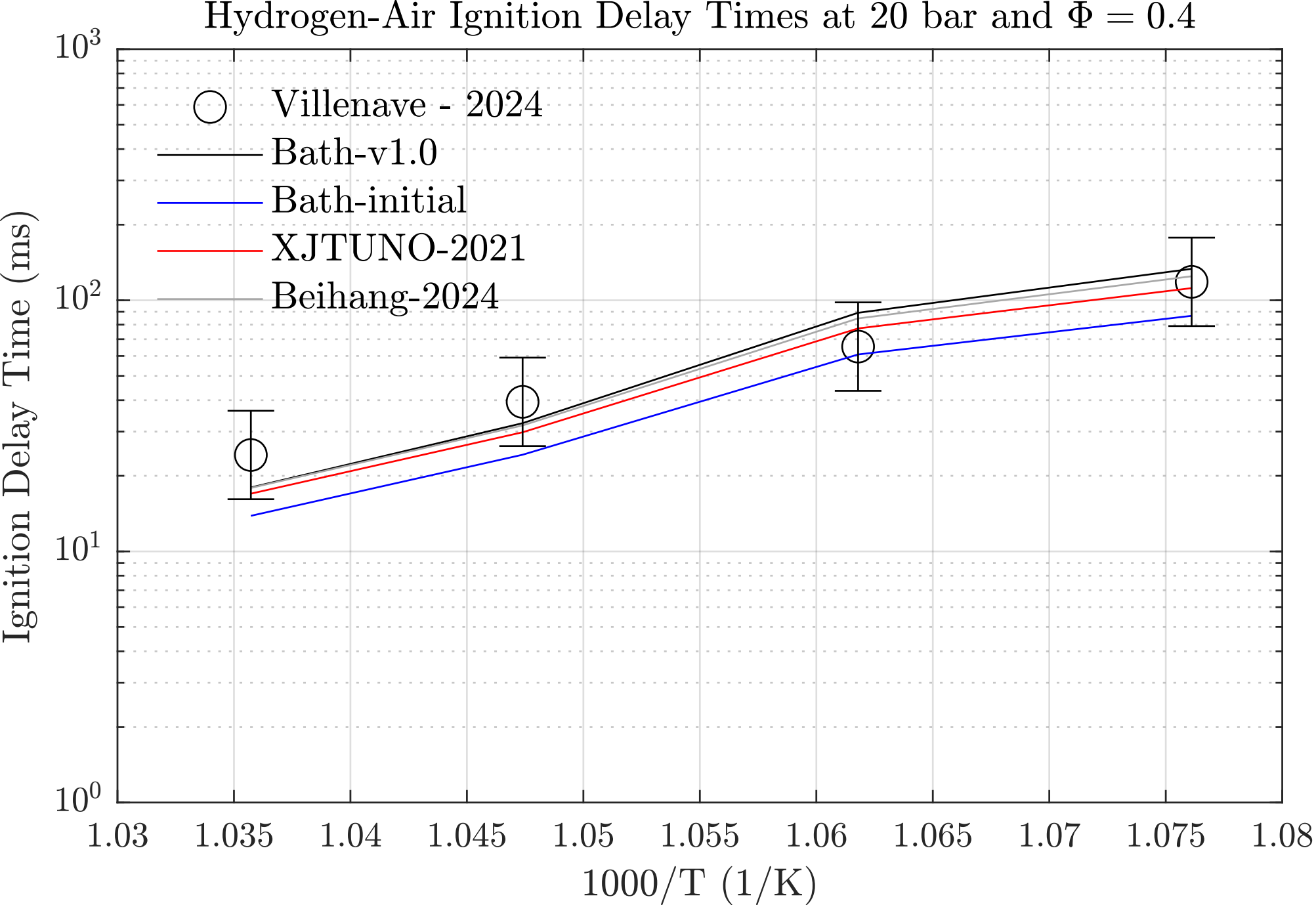

Hydrogen-Air Ignition Delay Times at 34 bar, 98% Ar, 0.01% NO and Φ = 0.3
Mathieu - 2013
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (μs)
1000/T (1/K)
10^4
10^3
10^2
10^1
0.8
0.81
0.82
0.83
0.84
0.85
0.86
0.87
0.88

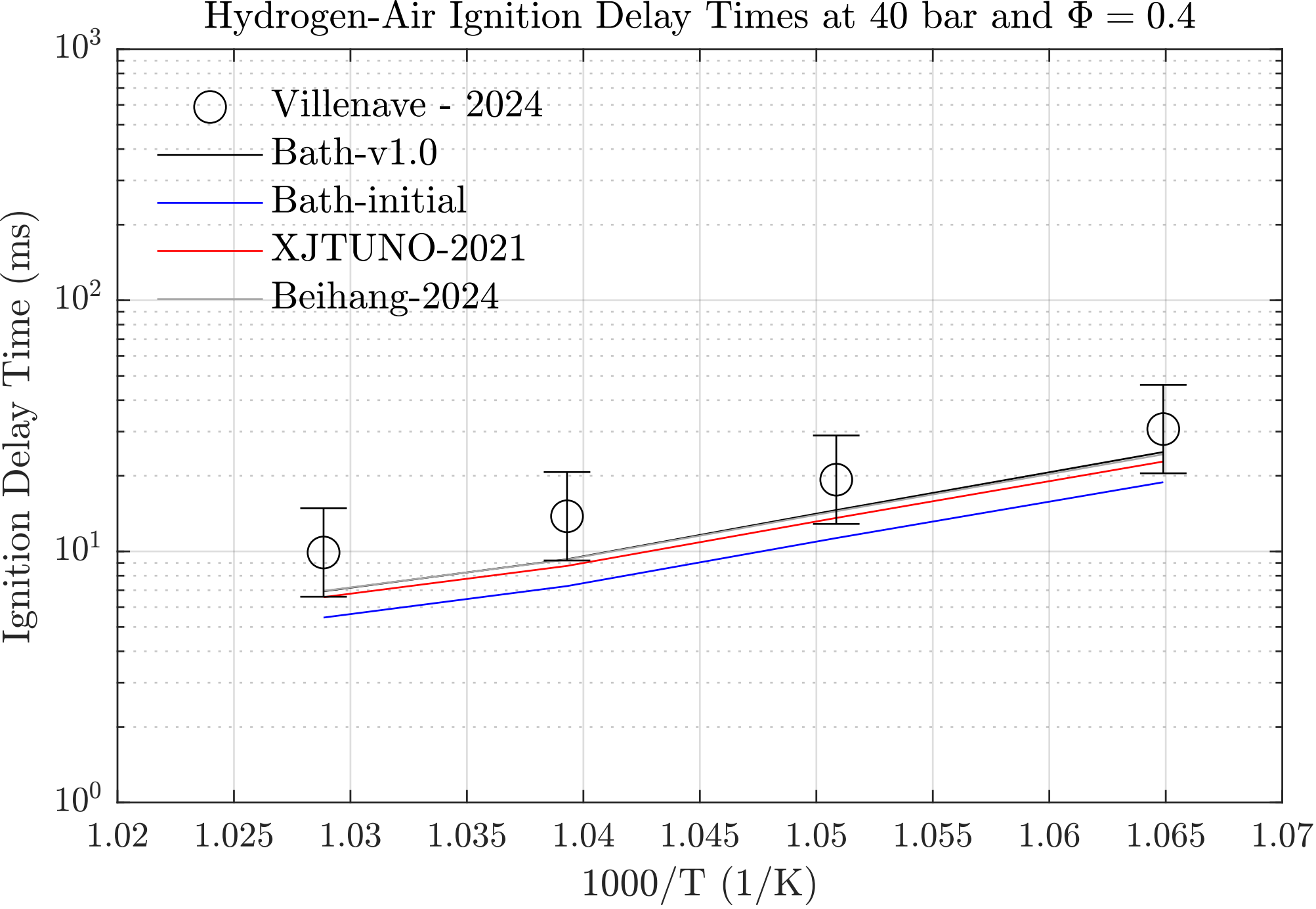

Hydrogen-Air Ignition Delay Times at 30 bar and Φ = 0.2
Villenave - 2024
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (ms)
10^3
10^2
10^1
10^0
0.95
1
1.05
1.1
1000/T (1/K)

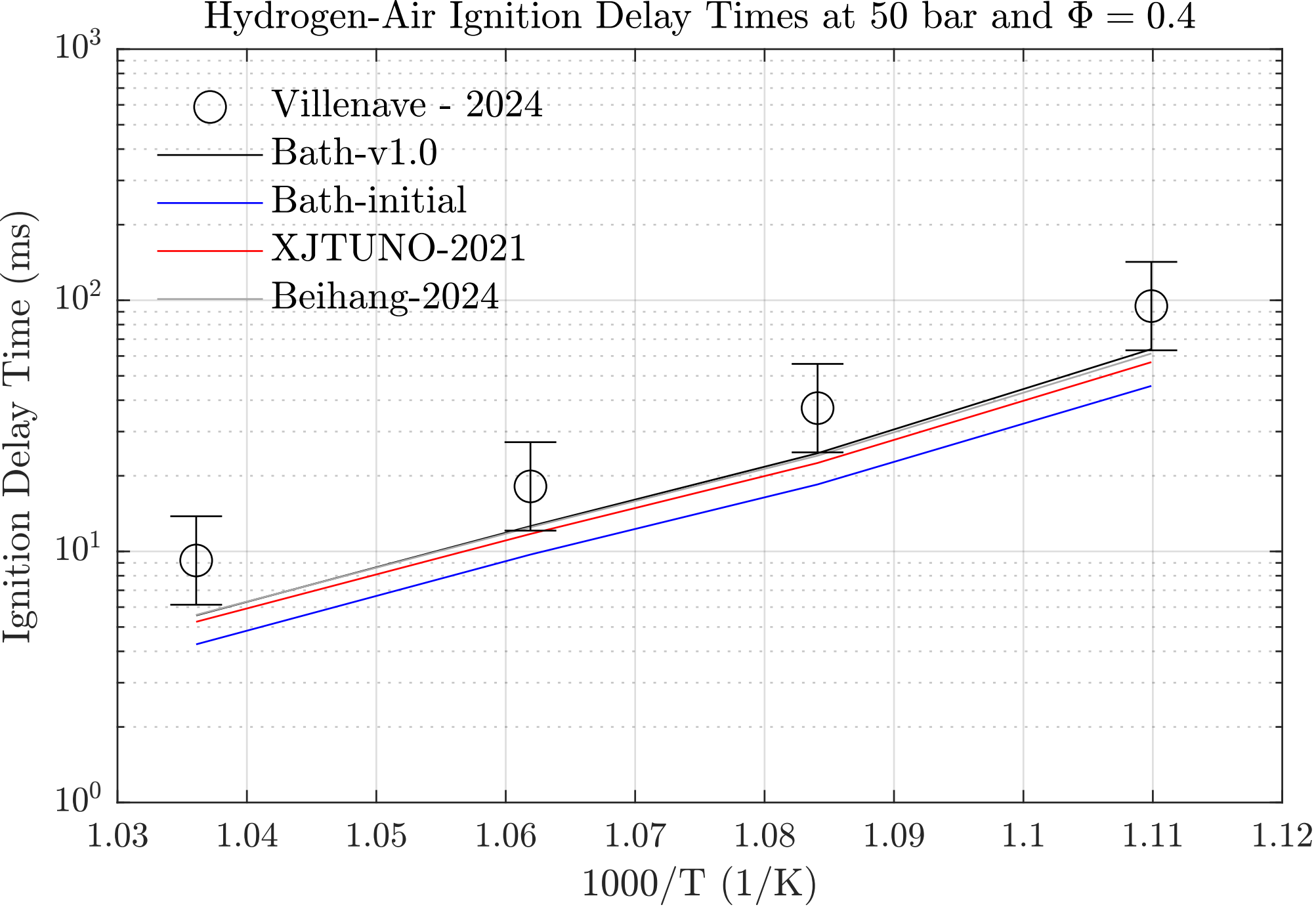

Hydrogen-Air Ignition Delay Times at 30 bar and Φ = 0.3
Villenave - 2024
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (ms)
1000/T (1/K)
10^3
10^2
10^1
10^0
0.99
1
1.01
1.02
1.03
1.04
1.05
1.06
1.07
1.08
1.09

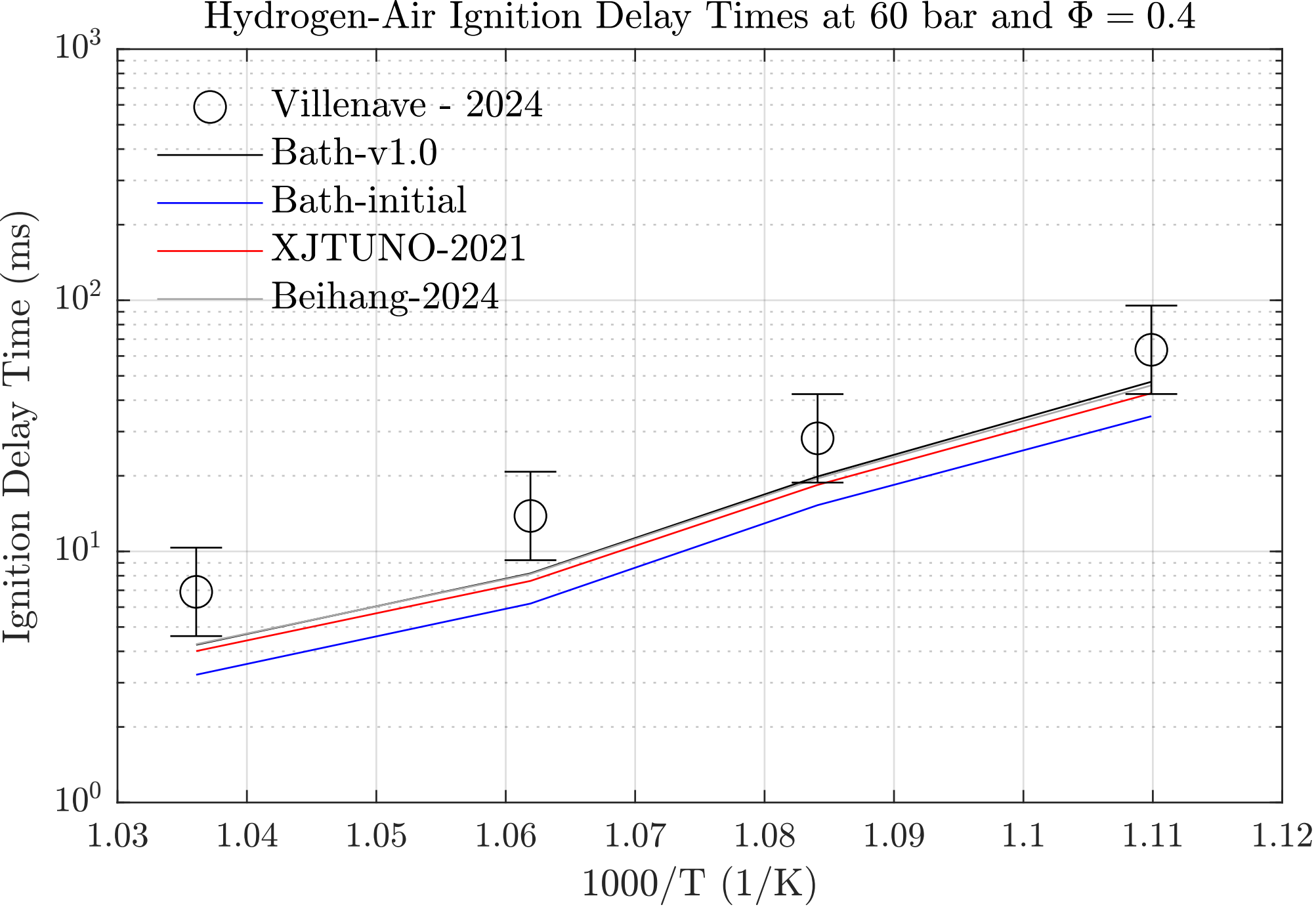

Hydrogen-Air Ignition Delay Times at 30 bar and Φ = 0.4
Villenave - 2024
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (ms)
1000/T (1/K)
10^3
10^2
10^1
10^0
1.03
1.035
1.04
1.045
1.05
1.055
1.06
1.065
1.07

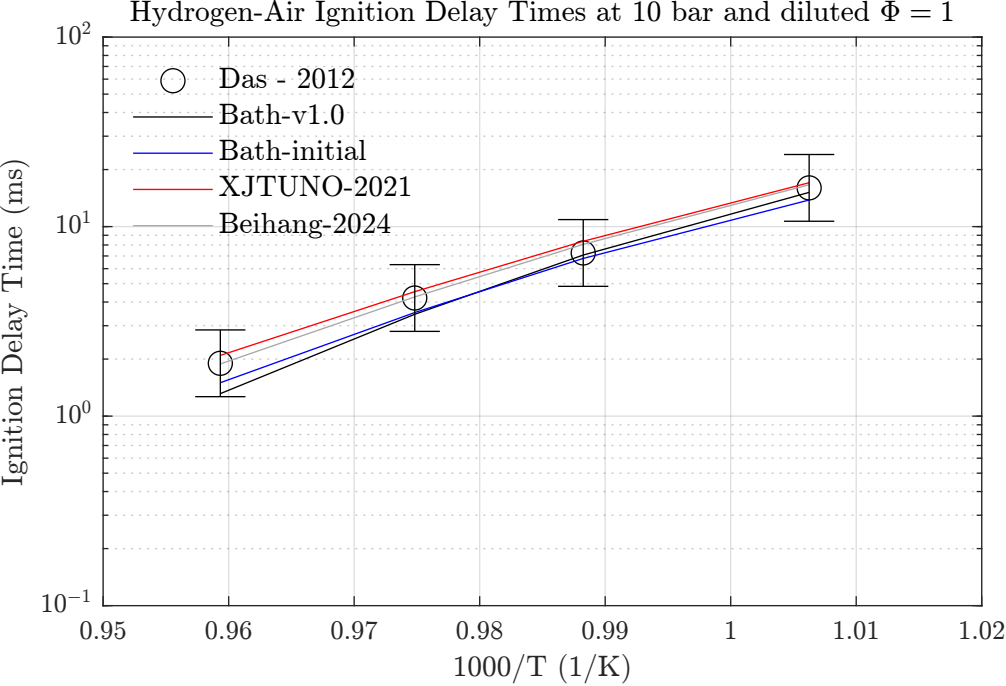

Hydrogen-Air Ignition Delay Times at 30 bar and Φ = 0.5
Villenave - 2024
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (ms)
1000/T (1/K)
10^3
10^2
10^1
10^0
1.02
1.03
1.04
1.05
1.06
1.07
1.08
1.09
1.1
1.11

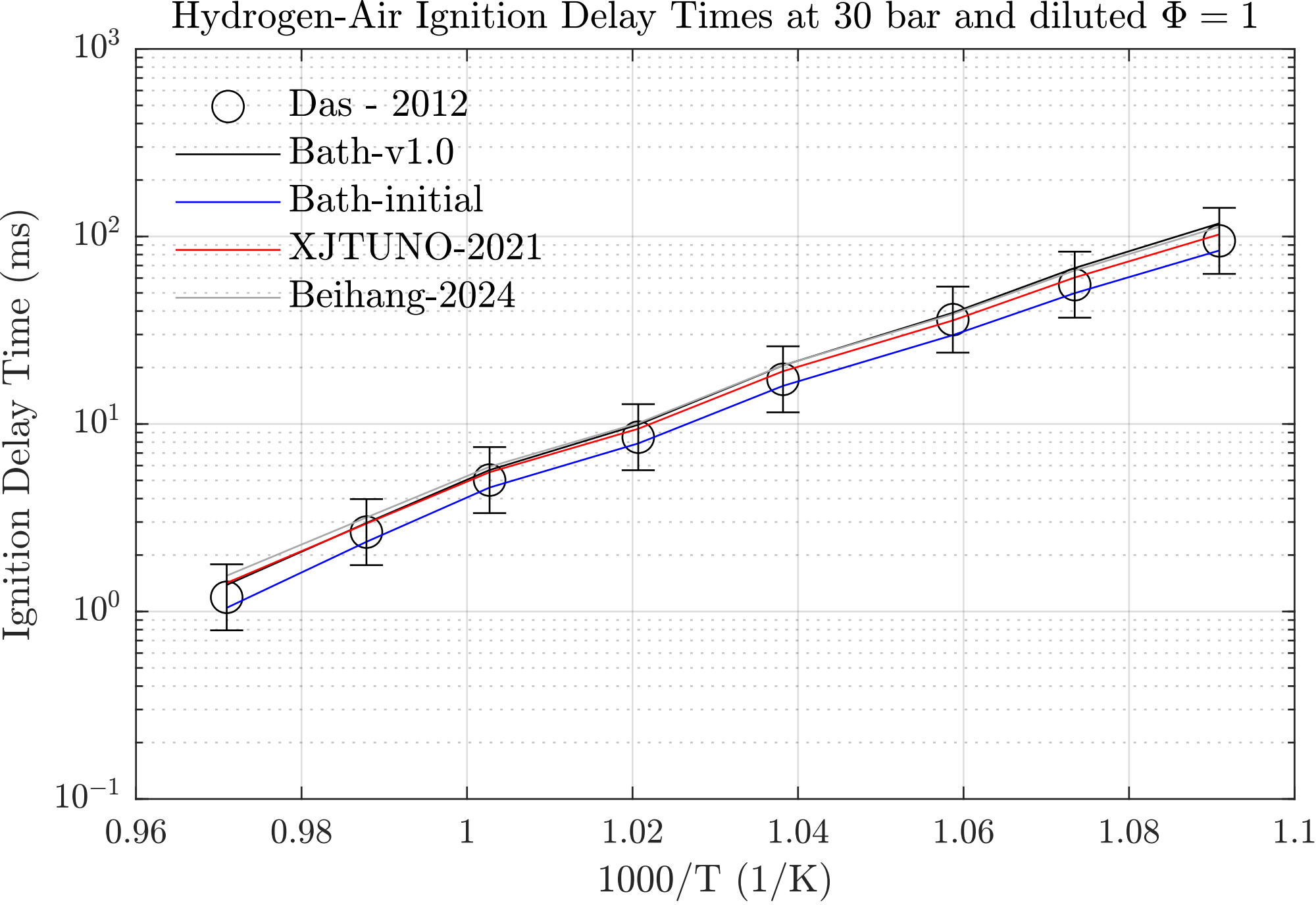

Hydrogen-Air Ignition Delay Times at 20 bar and Φ = 0.4
Villenave - 2024
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (ms)
10^3
10^2
10^1
10^0
1.03
1.035
1.04
1.045
1.05
1.055
1.06
1.065
1.07
1.075
1.08
1000/T (1/K)

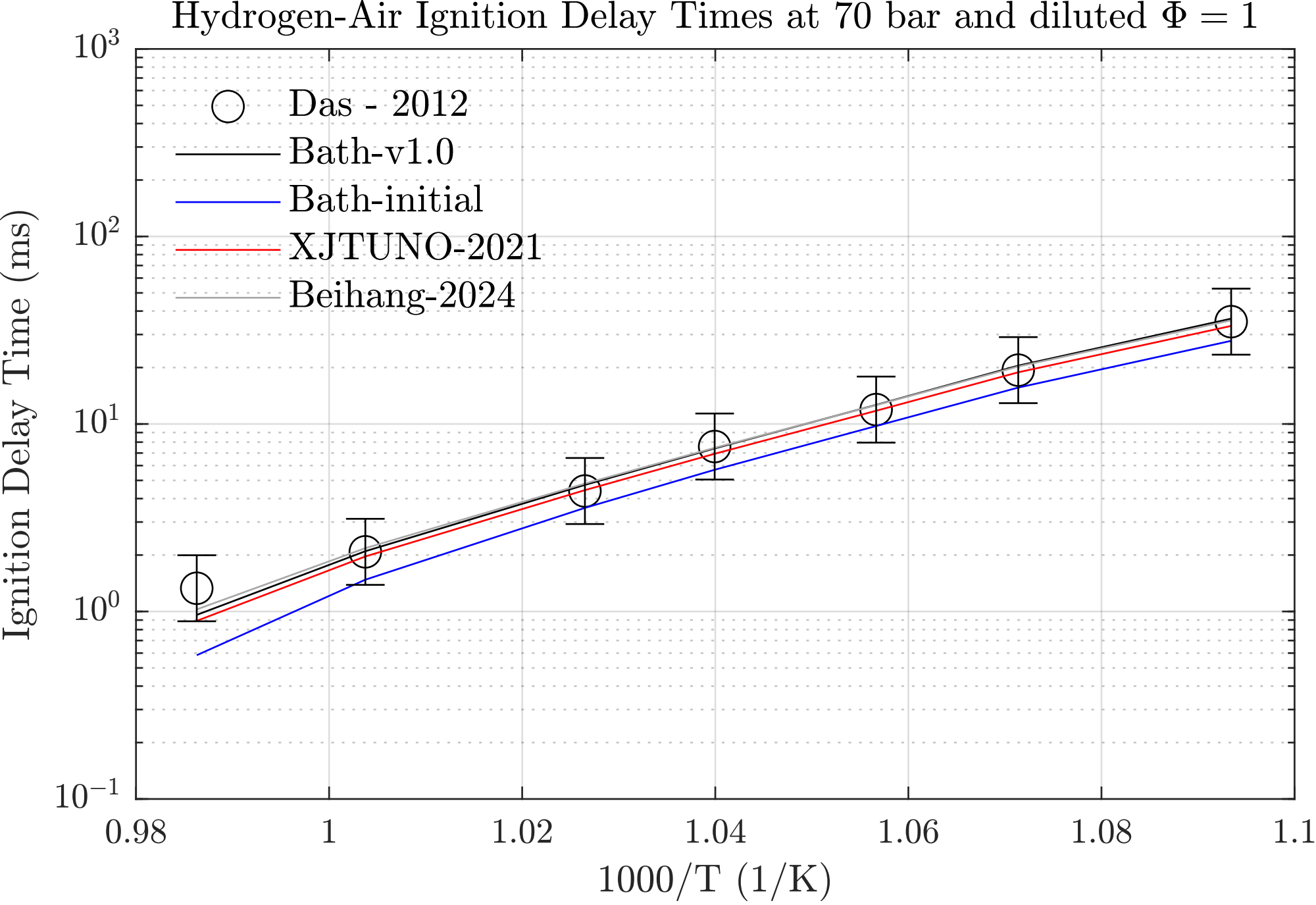

Hydrogen-Air Ignition Delay Times at 40 bar and Φ = 0.4
Villenave - 2024
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (ms)
10^3
10^2
10^1
10^0
1.02
1.025
1.03
1.035
1.04
1.045
1.05
1.055
1.06
1.065
1.07
1000/T (1/K)

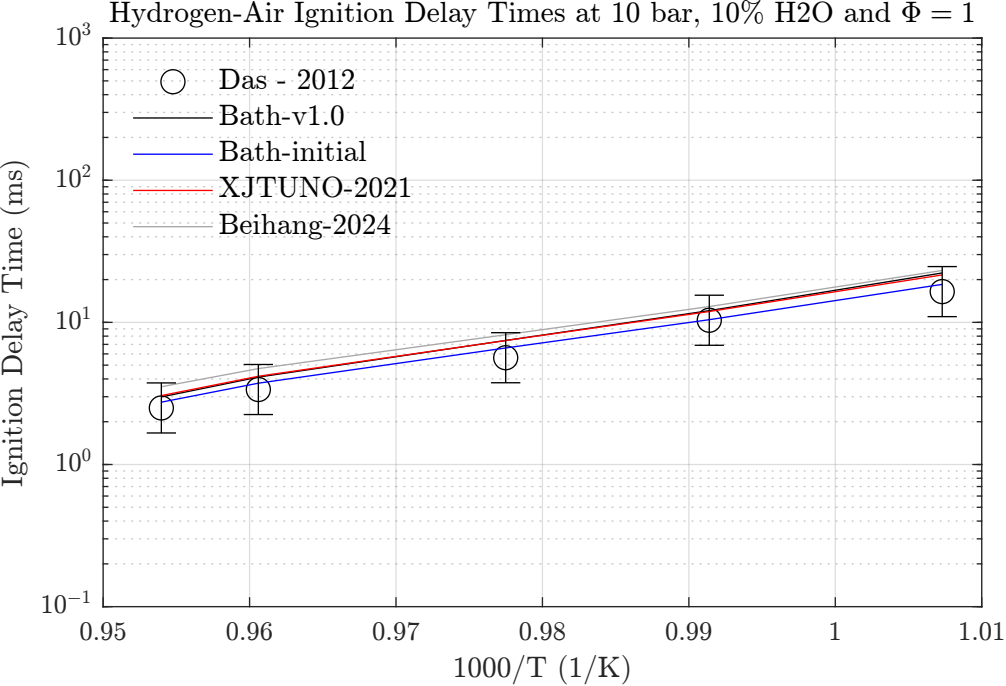

Hydrogen-Air Ignition Delay Times at 50 bar and Φ = 0.4
Villenave - 2024
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (ms)
1000/T (1/K)
10^3
10^2
10^1
10^0
1.03
1.04
1.05
1.06
1.07
1.08
1.09
1.1
1.11
1.12

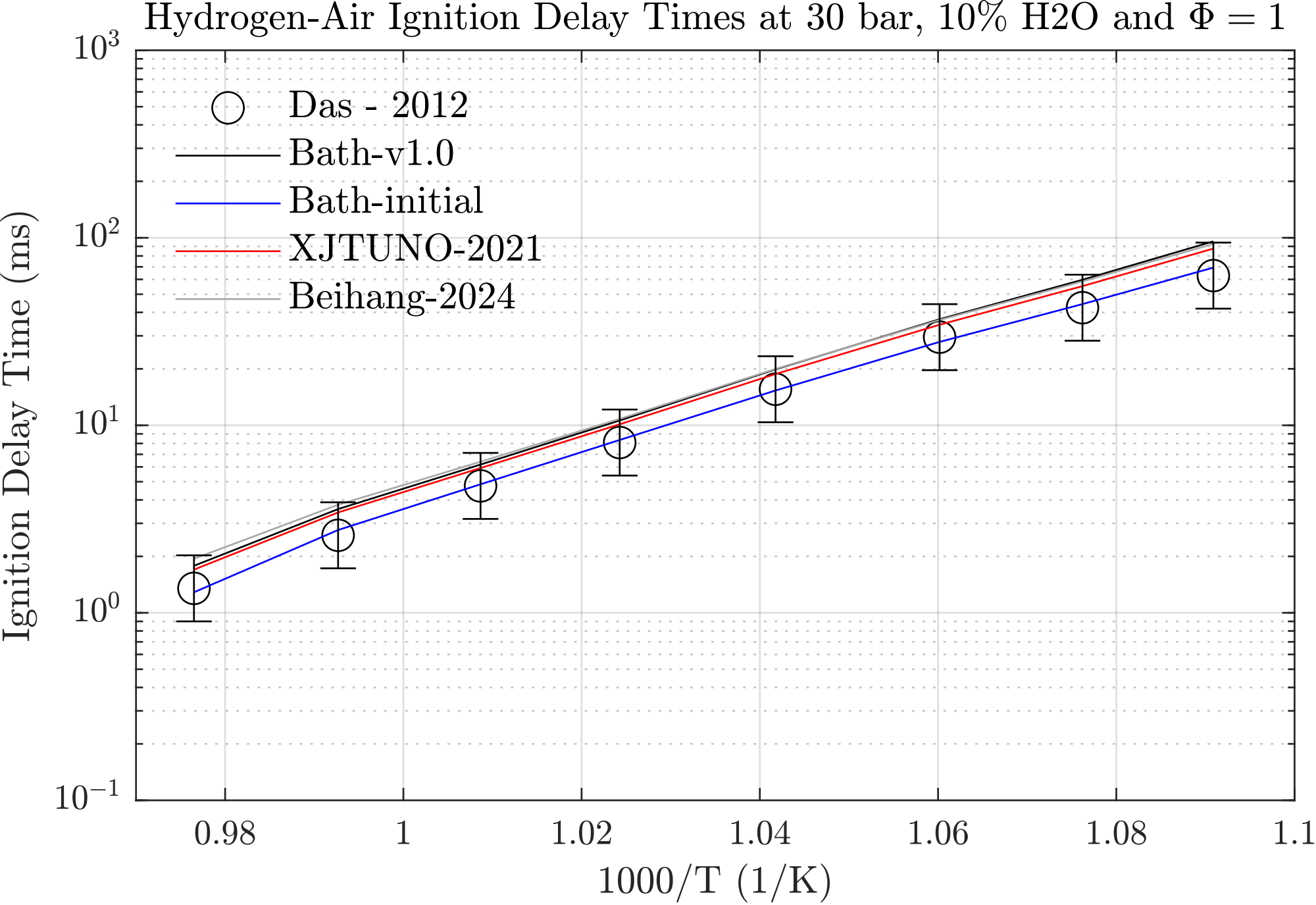

Hydrogen-Air Ignition Delay Times at 60 bar and Φ = 0.4
Villenave - 2024
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (ms)
1000/T (1/K)
10^3
10^2
10^1
10^0
1.03
1.04
1.05
1.06
1.07
1.08
1.09
1.1
1.11
1.12

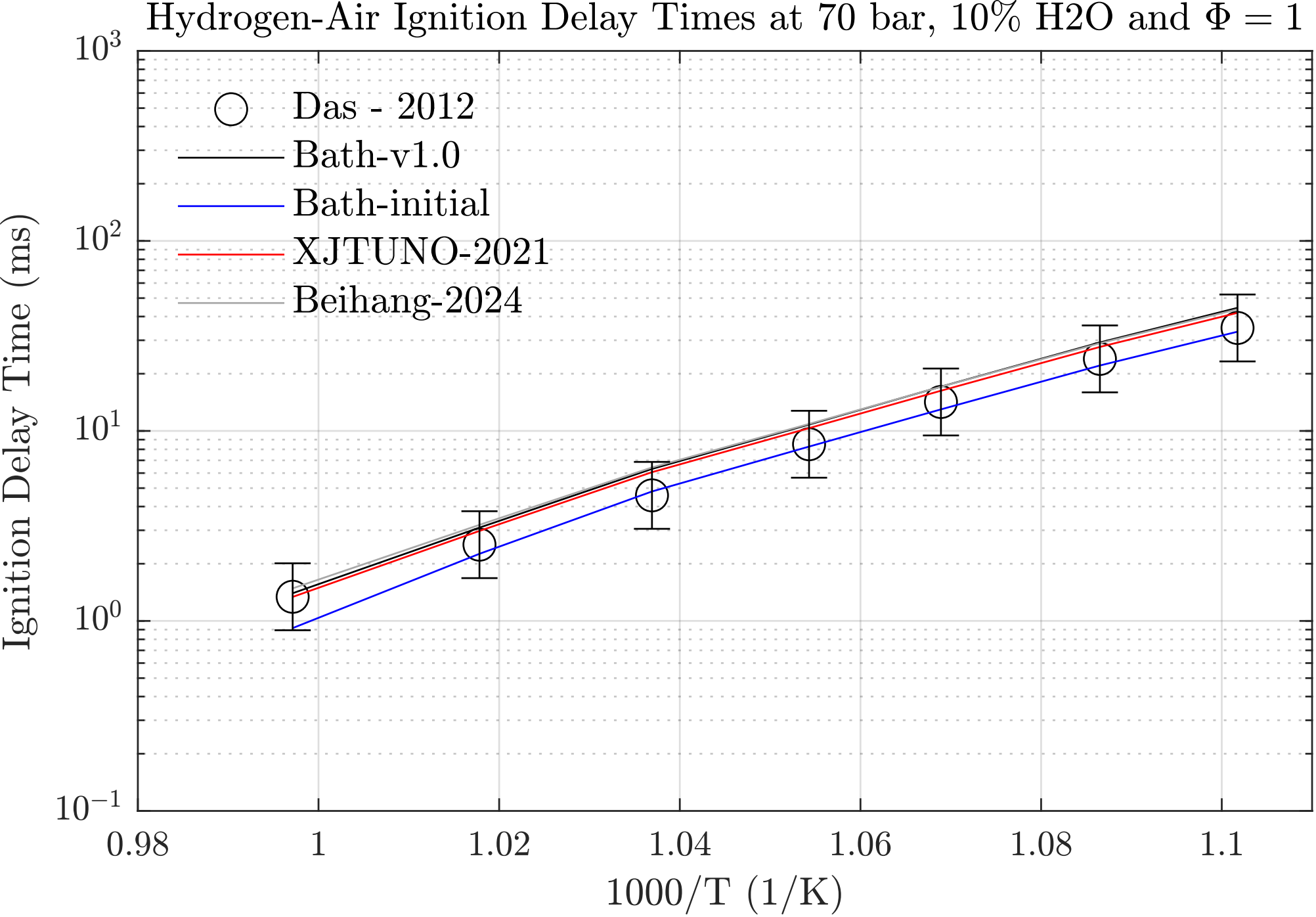

Hydrogen-Air Ignition Delay Times at 10 bar and diluted Φ = 1
Das - 2012
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (ms)
1000/T (1/K)
10^2
10^1
10^0
10^−1
0.95
0.96
0.97
0.98
0.99
1
1.01
1.02

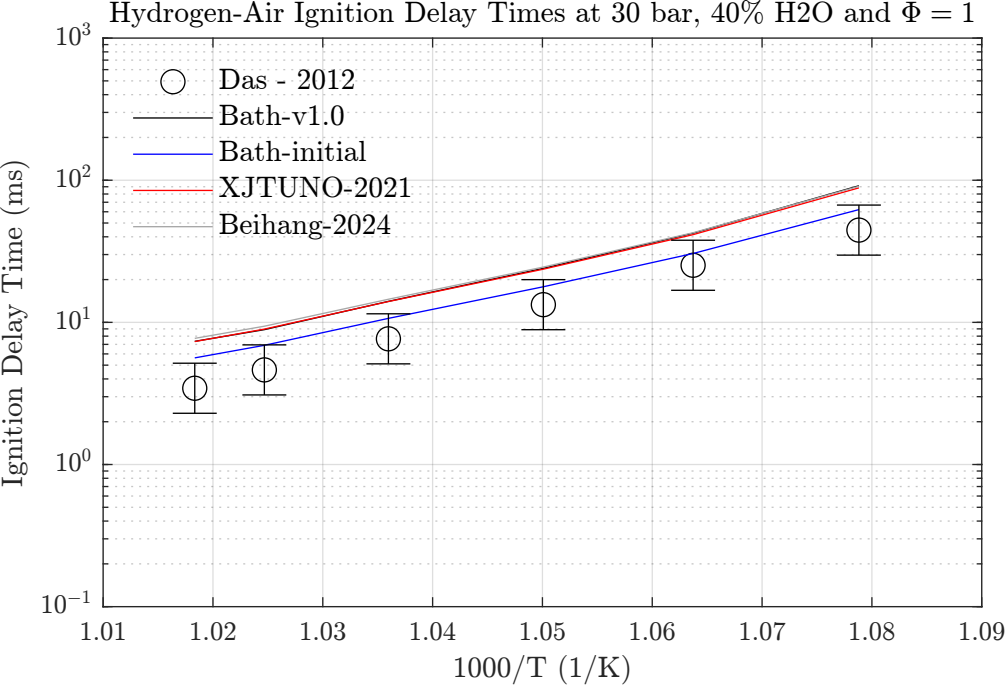

Hydrogen-Air Ignition Delay Times at 30 bar and diluted Φ = 1
Das - 2012
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (ms)
1000/T (1/K)
10^3
10^2
10^1
10^0
10^-1
0.96
0.98
1
1.02
1.04
1.06
1.08
1.1

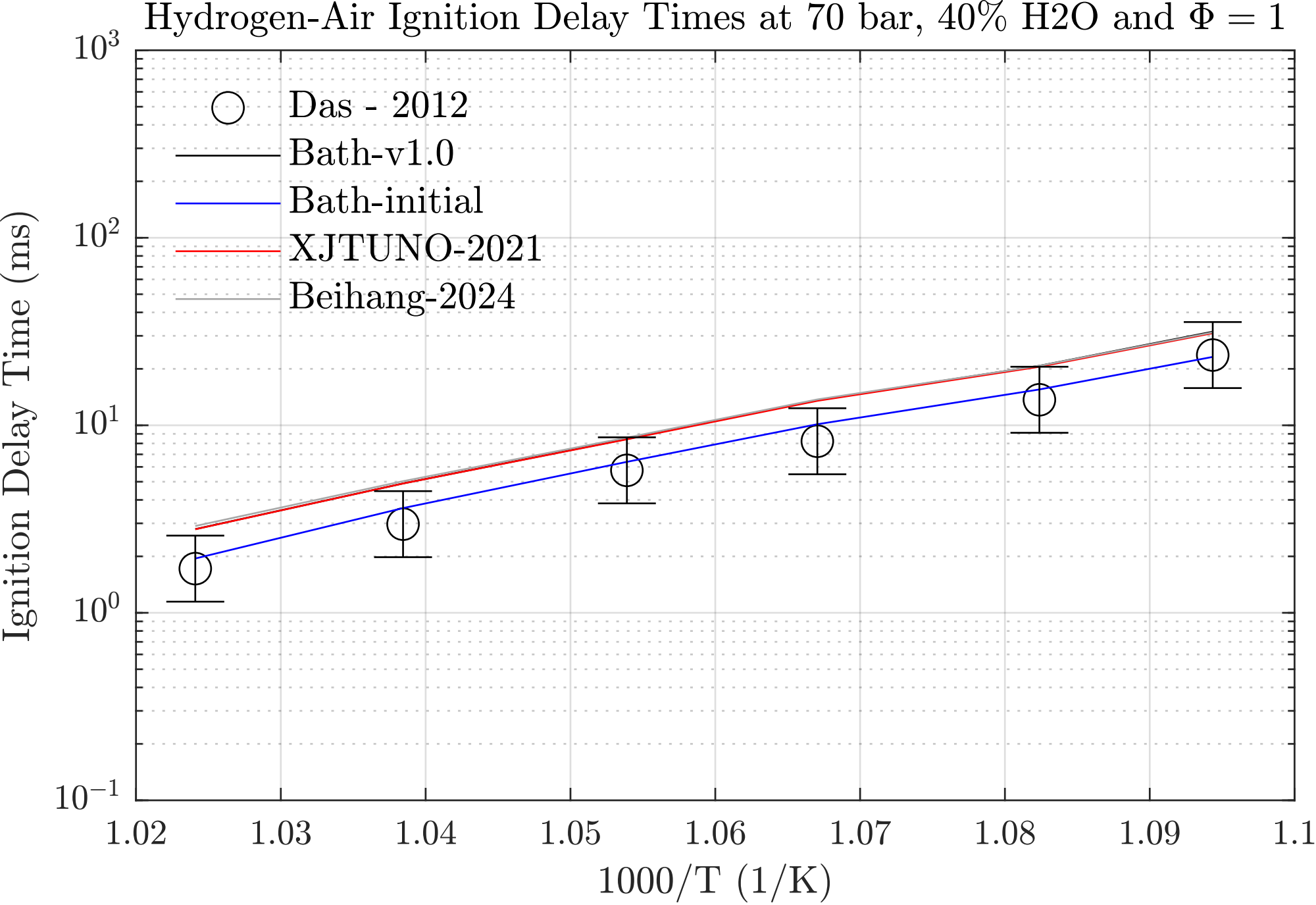

Hydrogen-Air Ignition Delay Times at 70 bar and diluted Φ = 1
Das - 2012
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (ms)
1000/T (1/K)
10^3
10^2
10^1
10^0
10^−1
0.98
1
1.02
1.04
1.06
1.08
1.1

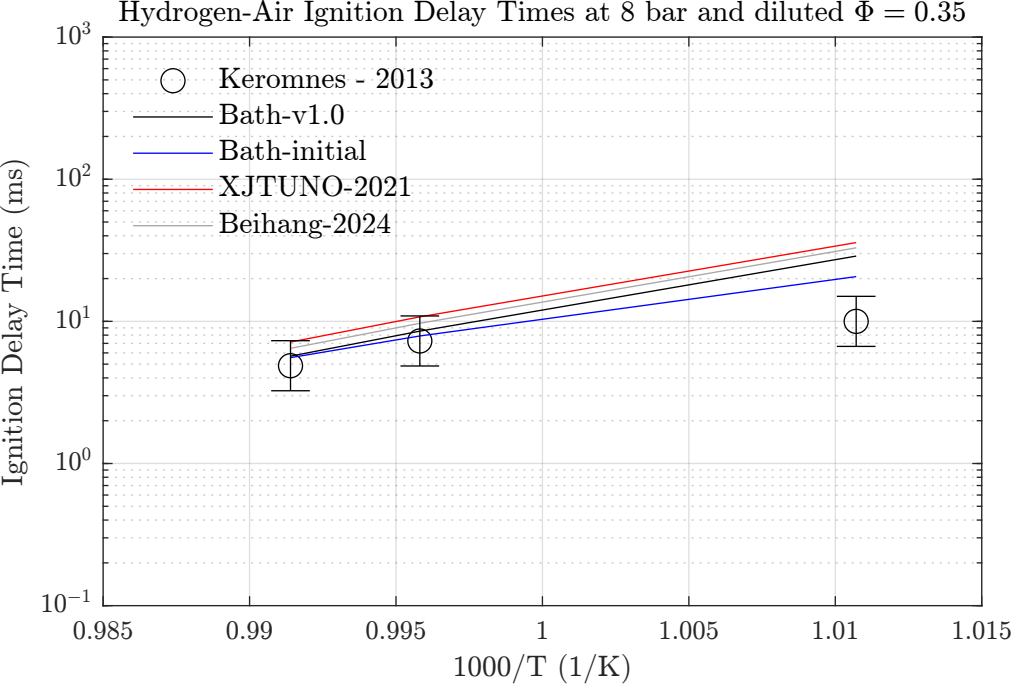

Hydrogen-Air Ignition Delay Times at 10 bar, 10% H2O and Φ = 1
Das - 2012
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (ms)
10^3
10^2
10^1
10^0
10^−1
0.95
0.96
0.97
0.98
0.99
1
1.01
1000/T (1/K)

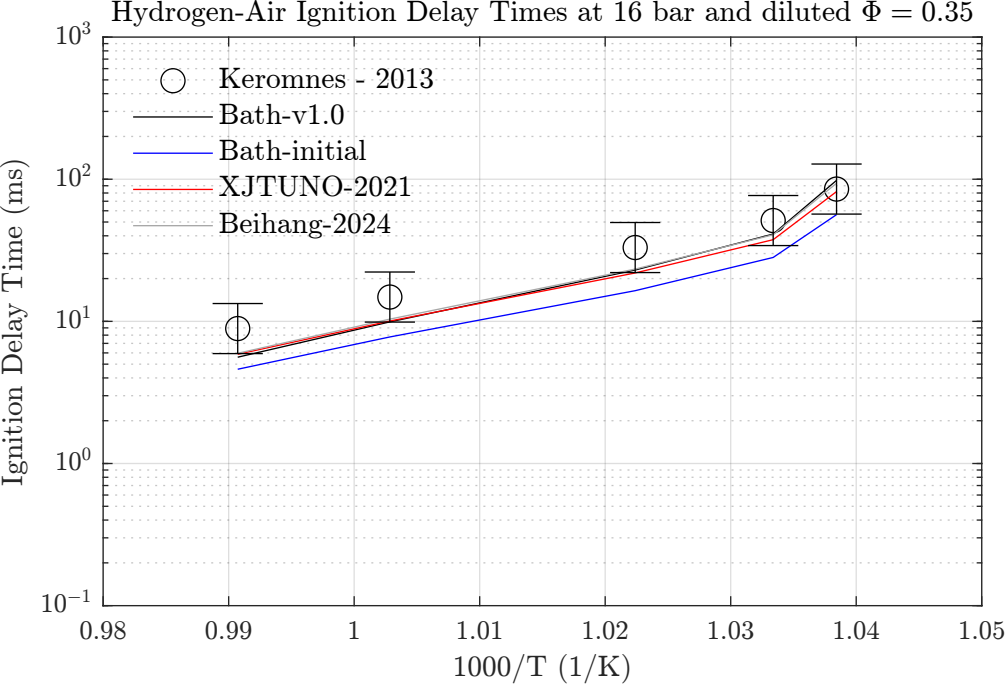

Hydrogen-Air Ignition Delay Times at 30 bar, 10% H2O and Φ = 1
Das - 2012
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (ms)
1000/T (1/K)
10^3
10^2
10^1
10^0
10^-1
0.98
1
1.02
1.04
1.06
1.08
1.1

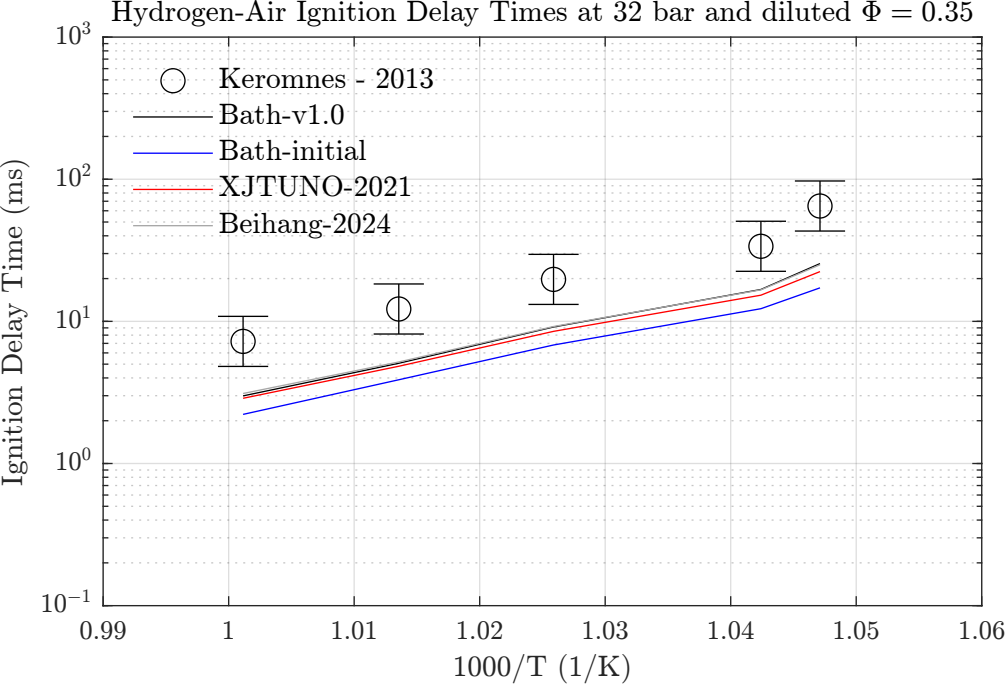

Hydrogen-Air Ignition Delay Times at 70 bar, 10% H2O and Φ = 1
Das - 2012
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (ms)
1000/T (1/K)
10^3
10^2
10^1
10^0
10^-1
0.98
1
1.02
1.04
1.06
1.08
1.1

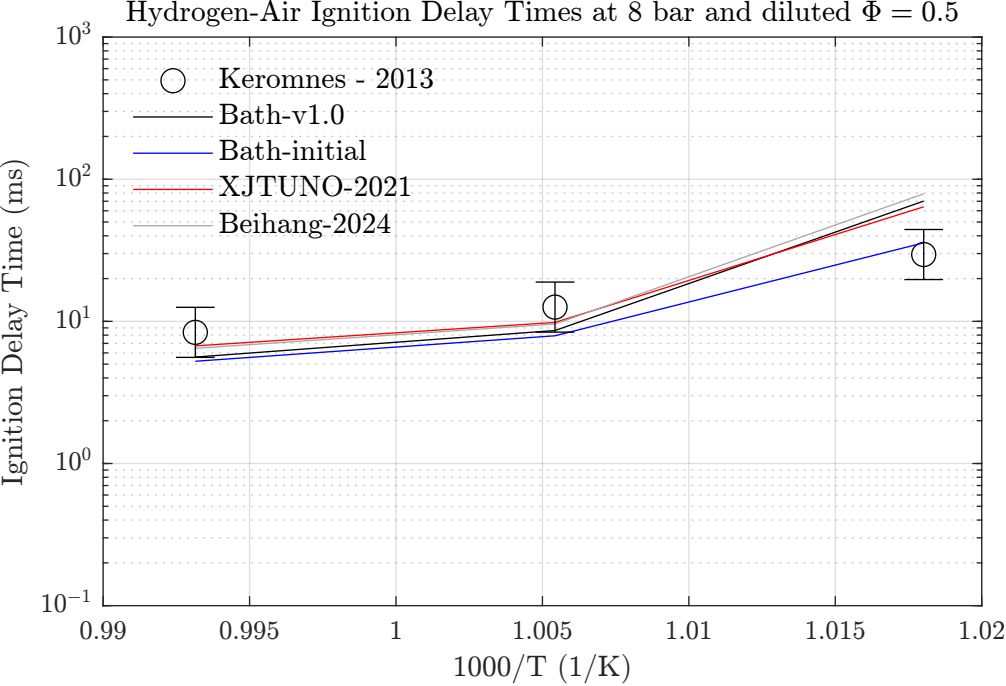

Hydrogen-Air Ignition Delay Times at 30 bar, 40% H2O and Φ = 1
Das - 2012
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (ms)
10^3
10^2
10^1
10^0
10^−1
1.01
1.02
1.03
1.04
1.05
1.06
1.07
1.08
1.09
1000/T (1/K)

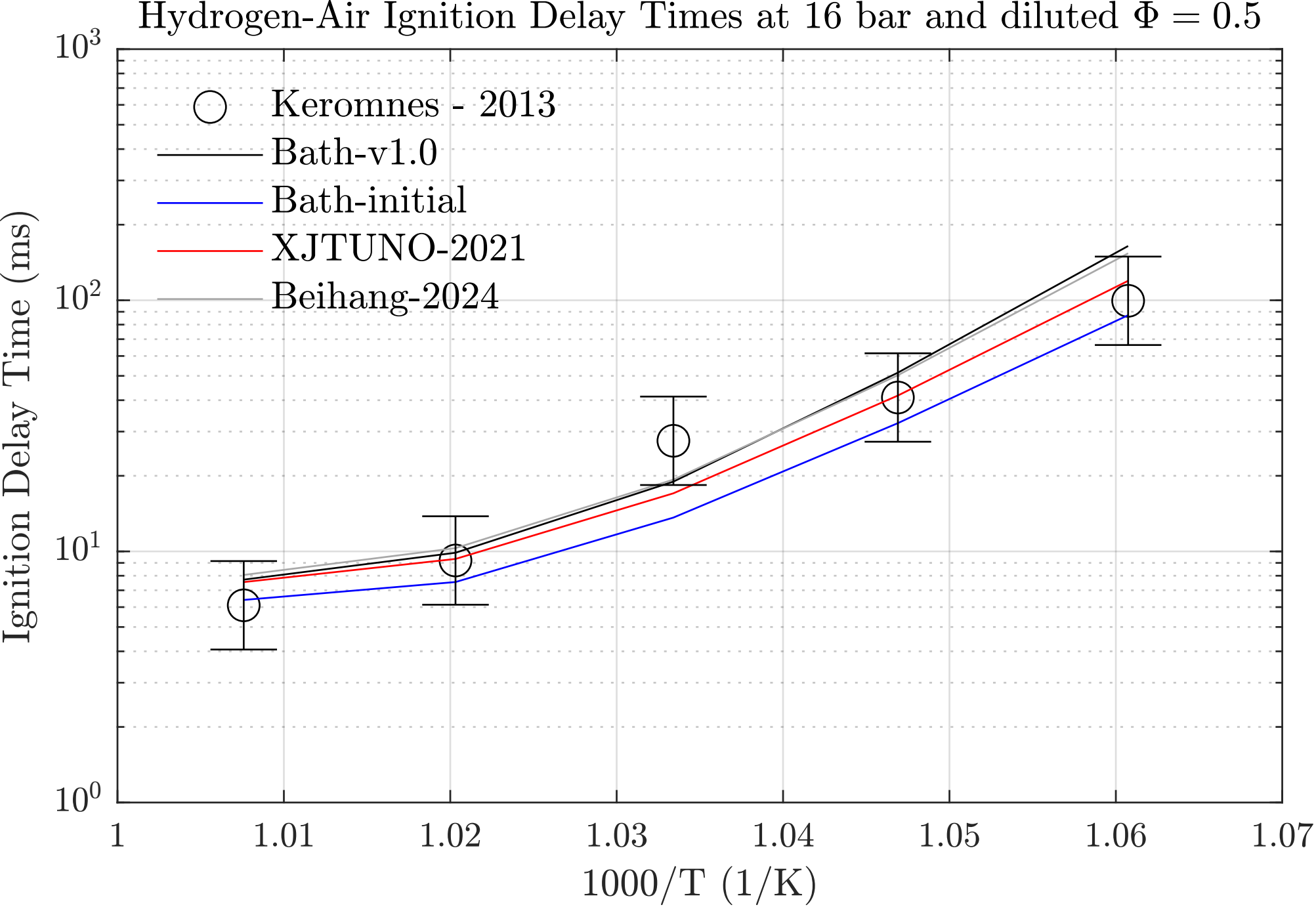

Hydrogen-Air Ignition Delay Times at 70 bar, 40% H2O and Φ = 1
Das - 2012
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (ms)
1000/T (1/K)
10^3
10^2
10^1
10^0
10^-1
1.02
1.03
1.04
1.05
1.06
1.07
1.08
1.09
1.1

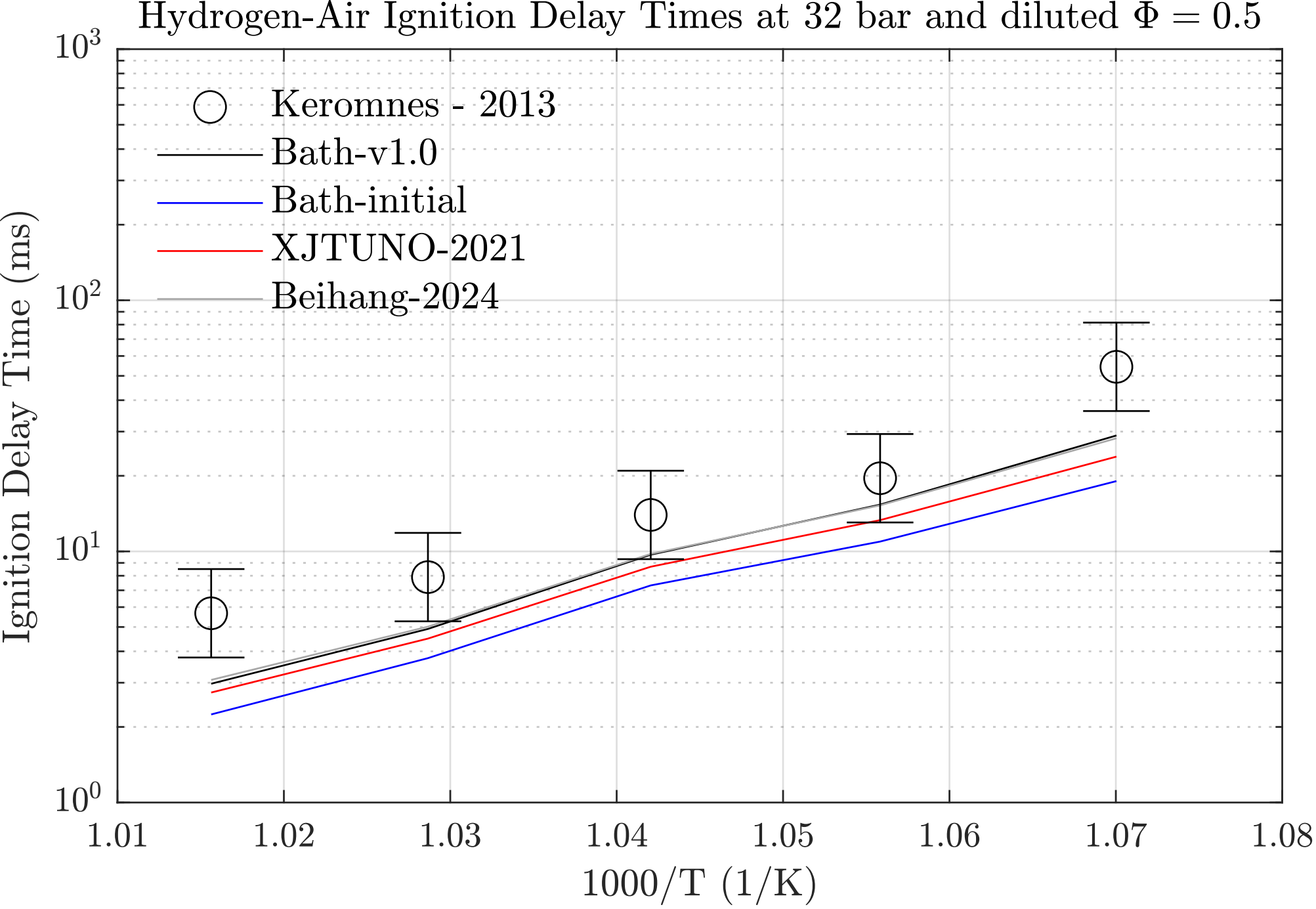

Hydrogen-Air Ignition Delay Times at 8 bar and diluted Φ = 0.35
Keromnes - 2013
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (ms)
1000/T (1/K)
10^3
10^2
10^1
10^0
10^-1
0.985
0.99
0.995
1
1.005
1.01
1.015

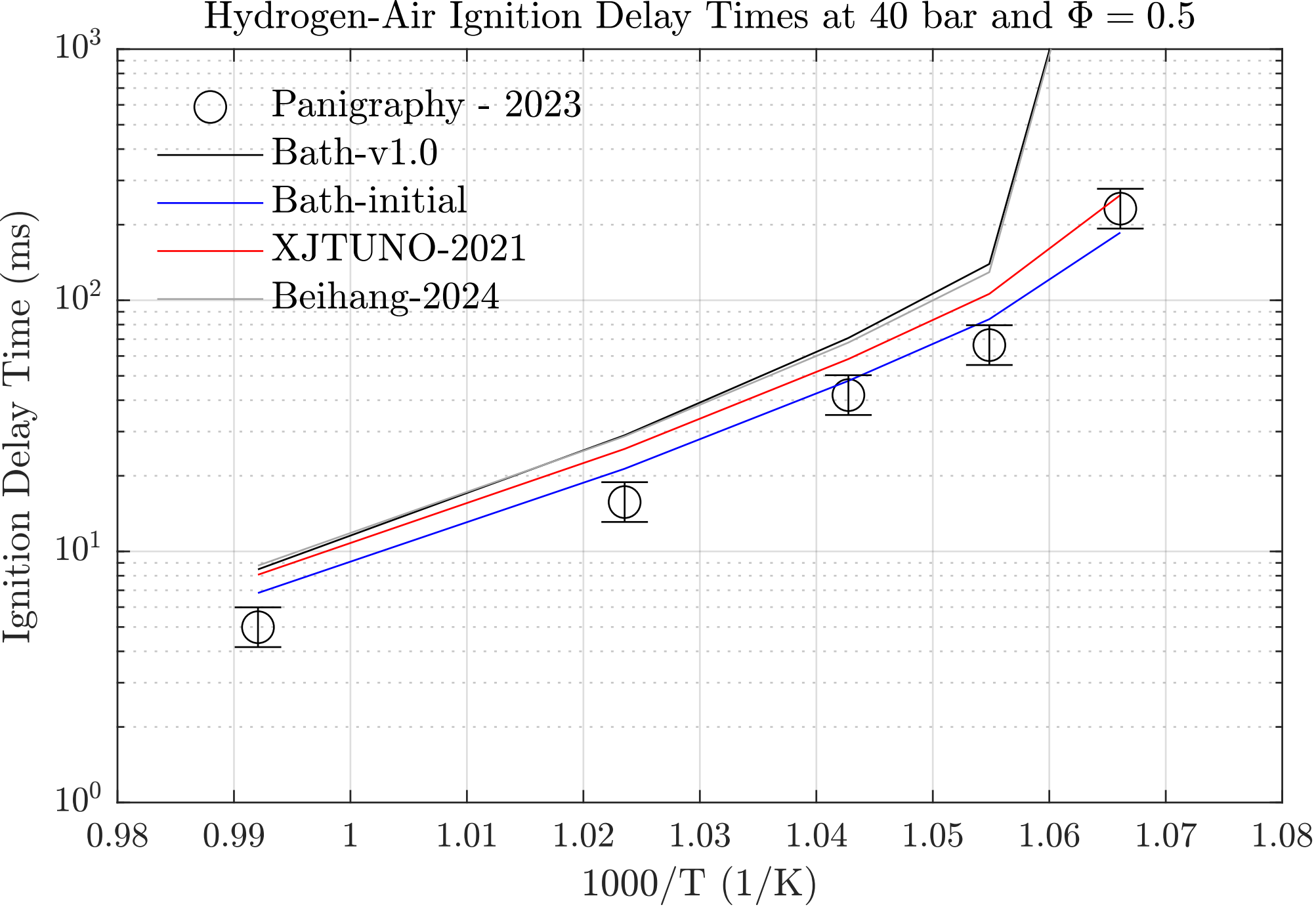

Hydrogen-Air Ignition Delay Times at 16 bar and diluted Φ = 0.35
Keromnes - 2013
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (ms)
1000/T (1/K)
10^3
10^2
10^1
10^0
10^-1
0.98
0.99
1
1.01
1.02
1.03
1.04
1.05

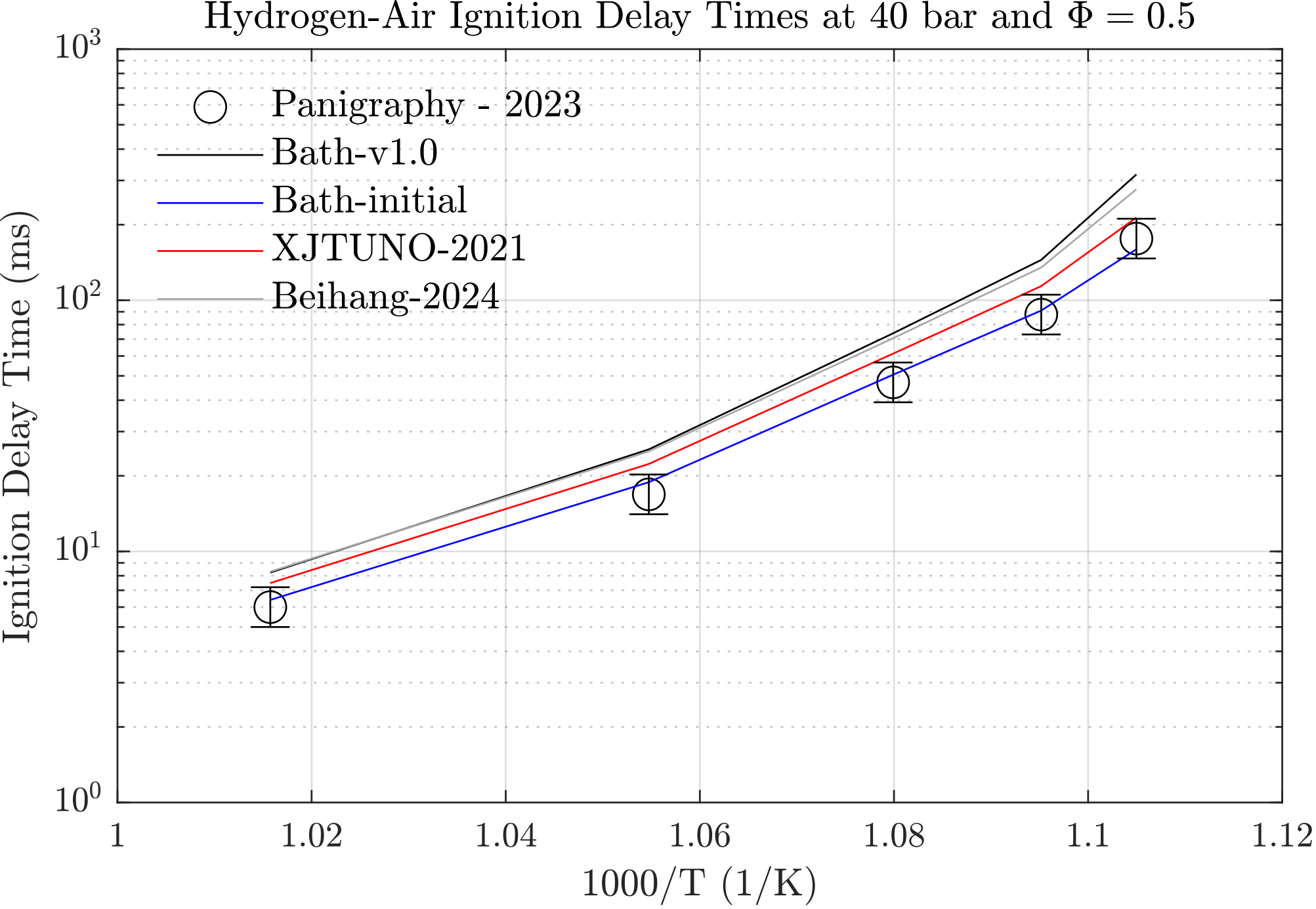

Hydrogen-Air Ignition Delay Times at 32 bar and diluted Φ = 0.35
Keromnes - 2013
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (ms)
1000/T (1/K)
10^3
10^2
10^1
10^0
10^-1
0.99
1
1.01
1.02
1.03
1.04
1.05
1.06

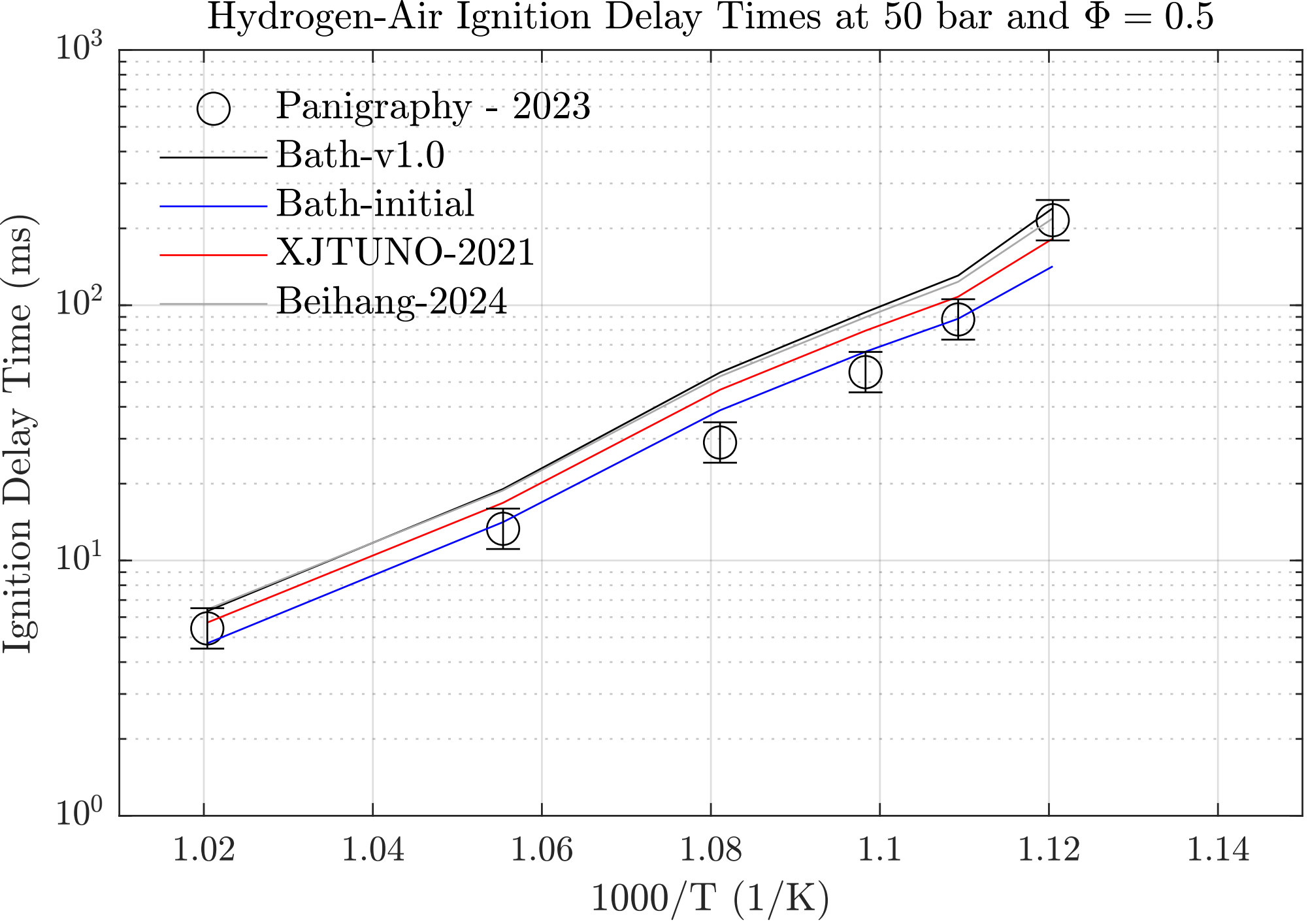

Hydrogen-Air Ignition Delay Times at 8 bar and diluted Φ = 0.5
Keromnes - 2013
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (ms)
10^3
10^2
10^1
10^0
10^−1
0.99
0.995
1
1.005
1.01
1.015
1.02
1000/T (1/K)

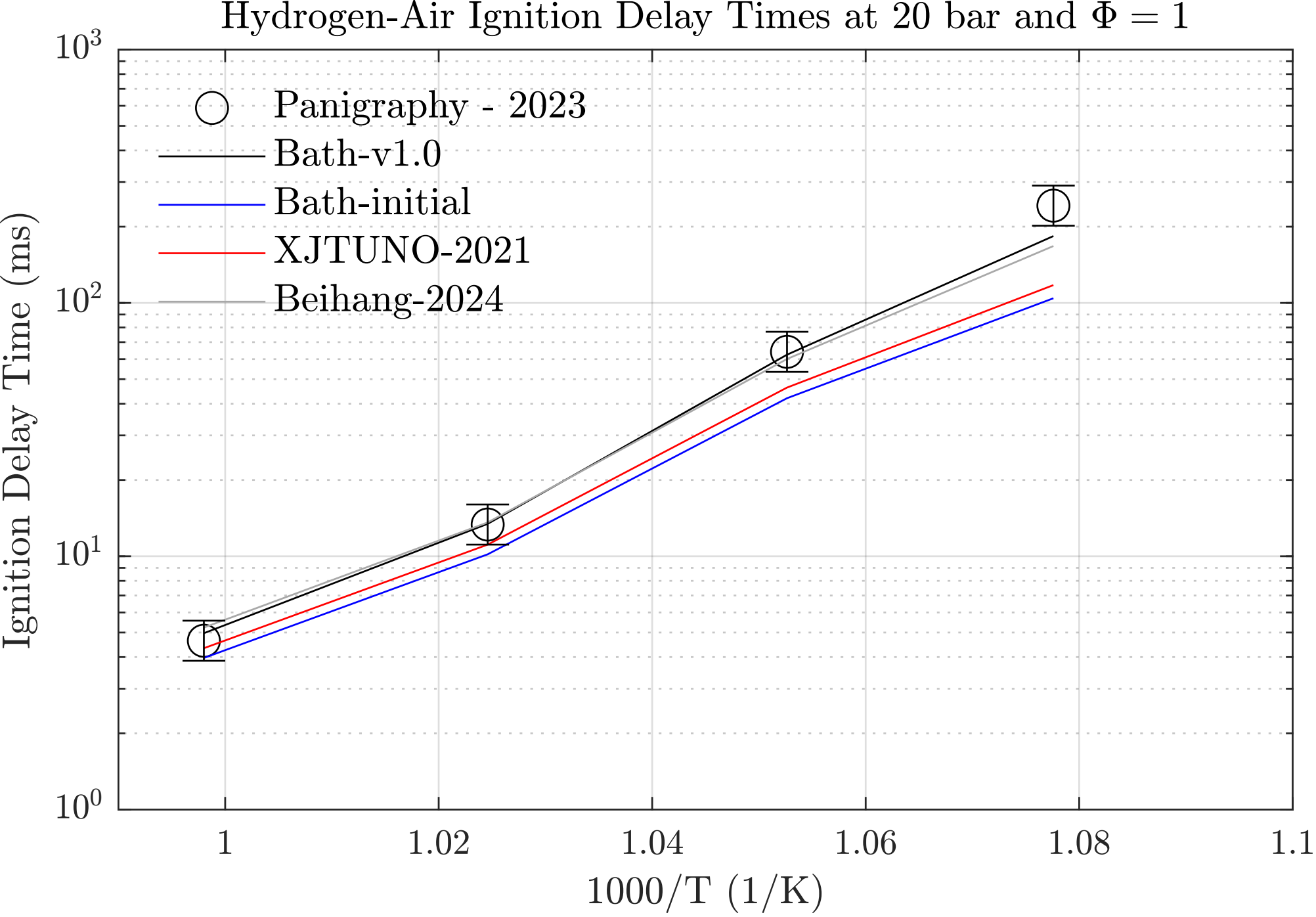

Hydrogen-Air Ignition Delay Times at 16 bar and diluted Φ = 0.5
Keromnes - 2013
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (ms)
1000/T (1/K)
10^3
10^2
10^1
10^0
1
1.01
1.02
1.03
1.04
1.05
1.06
1.07

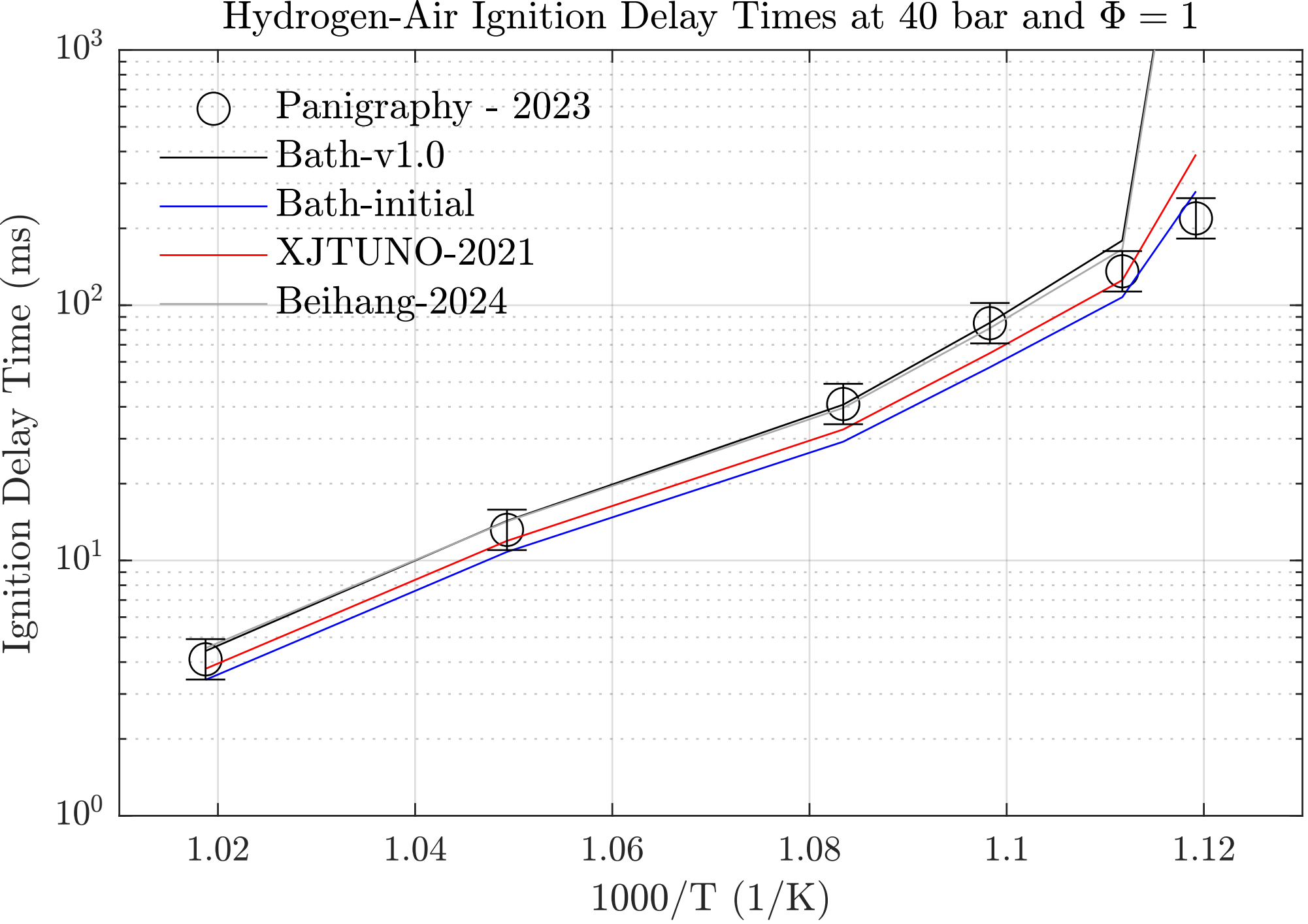

Hydrogen-Air Ignition Delay Times at 32 bar and diluted Φ = 0.5
Keromnes - 2013
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (ms)
1000/T (1/K)
10^3
10^2
10^1
10^0
1.01
1.02
1.03
1.04
1.05
1.06
1.07
1.08

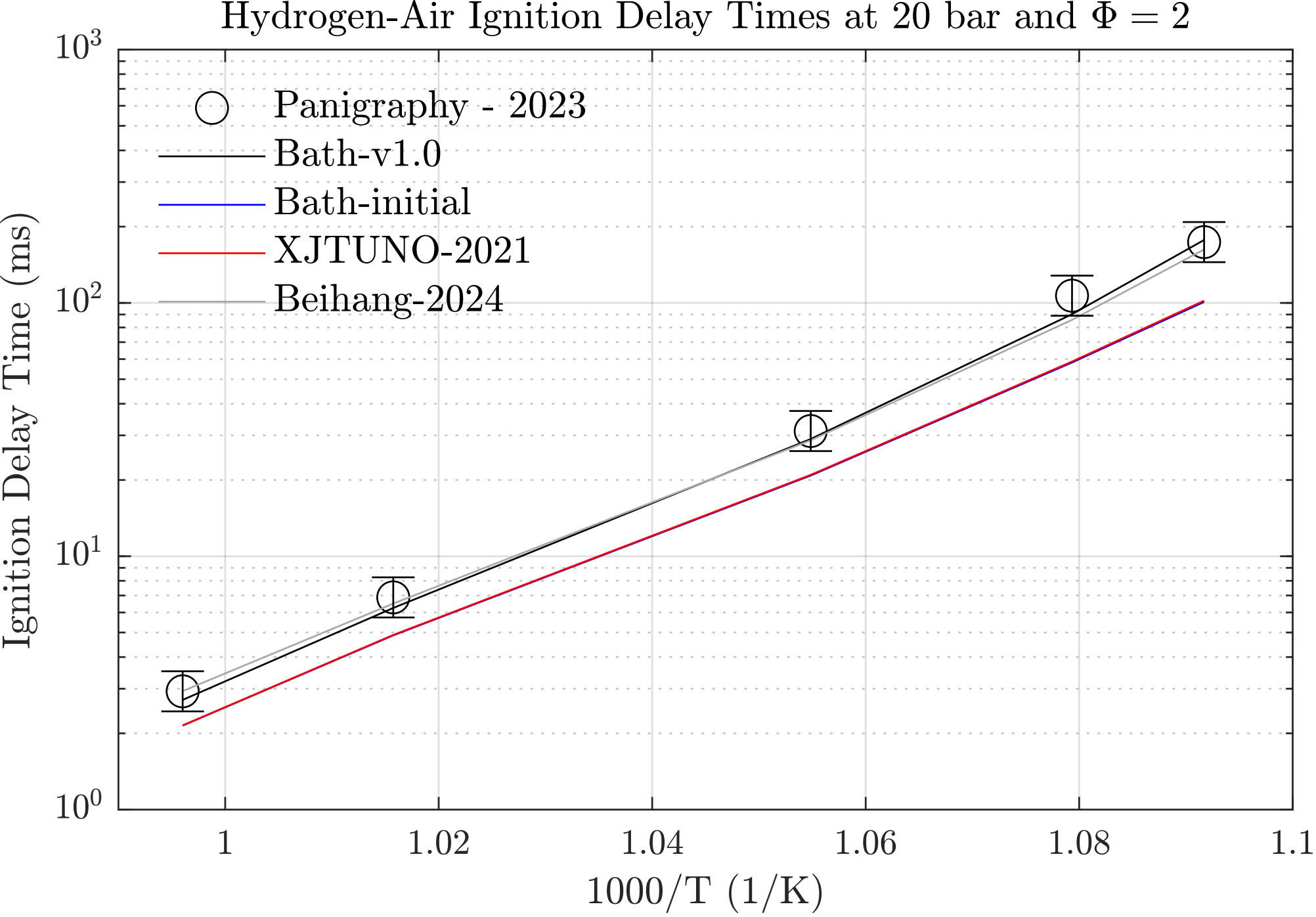

Hydrogen-Air Ignition Delay Times at 40 bar and Φ = 0.5
Panigraphy - 2023
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (ms)
1000/T (1/K)
10^3
10^2
10^1
10^0
0.98
0.99
1
1.01
1.02
1.03
1.04
1.05
1.06
1.07
1.08

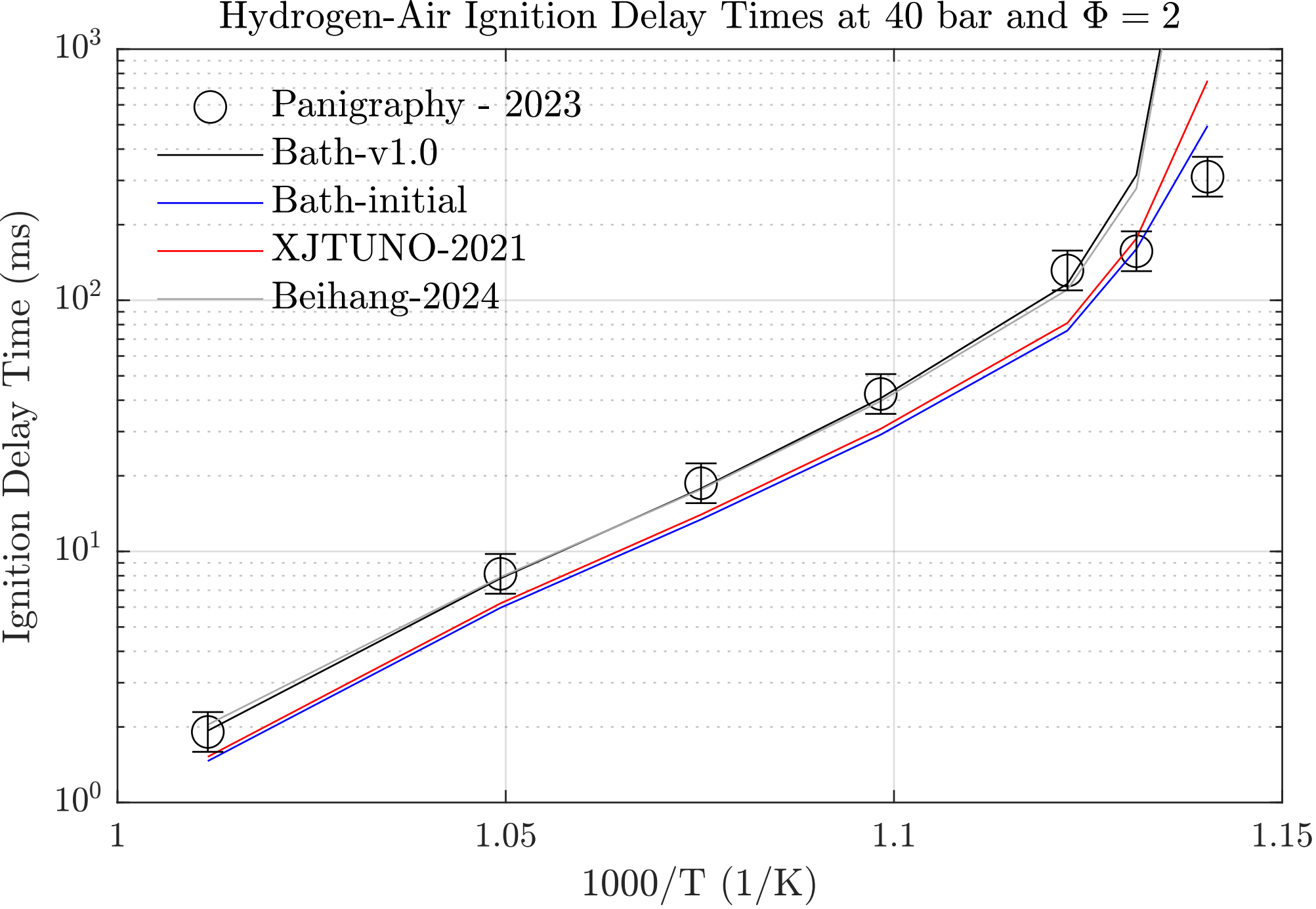

Hydrogen-Air Ignition Delay Times at 40 bar and Φ = 0.5
Panigraphy - 2023
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (ms)
1000/T (1/K)
10^3
10^2
10^1
10^0
1
1.02
1.04
1.06
1.08
1.1
1.12

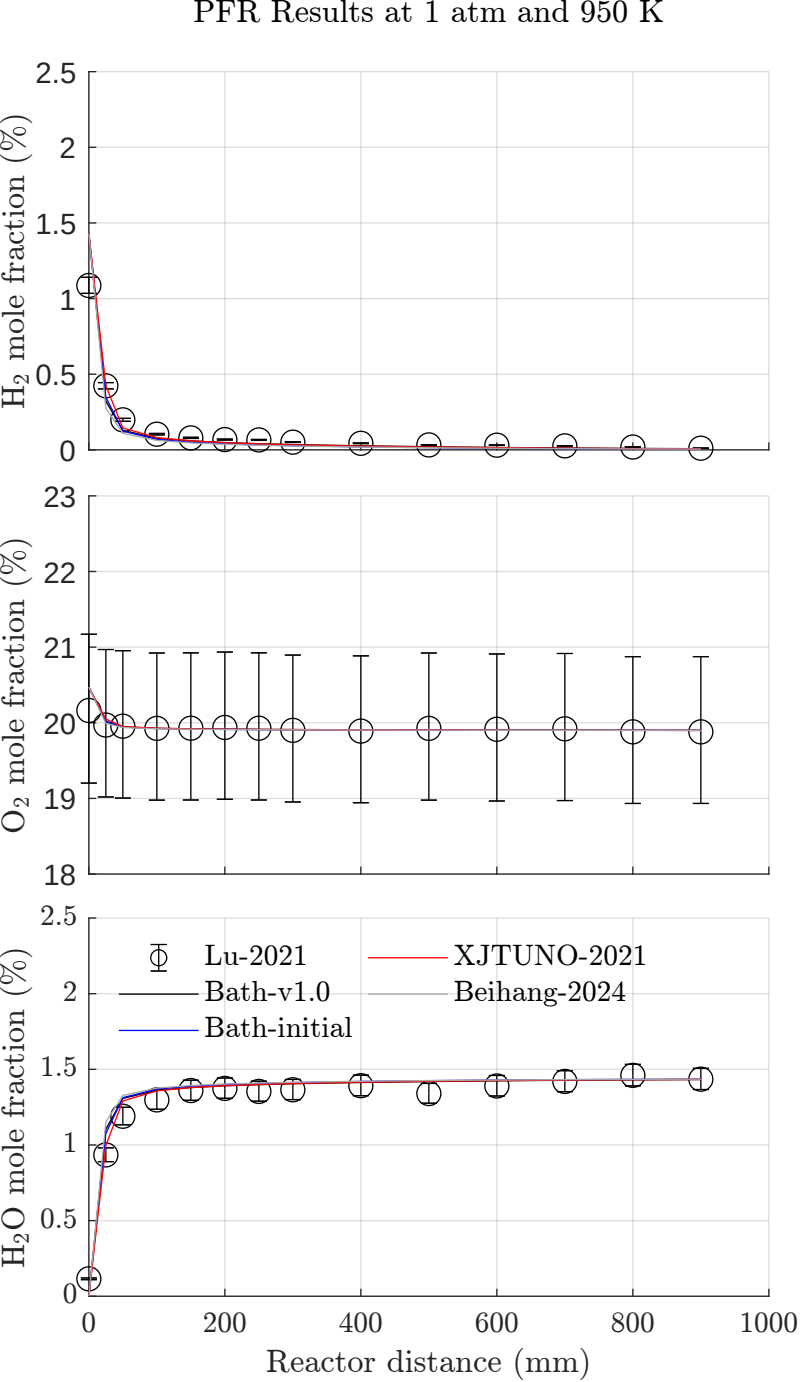

Hydrogen-Air Ignition Delay Times at 50 bar and Φ = 0.5
Panigraphy - 2023
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (ms)
10^3
10^2
10^1
10^0
1.02
1.04
1.06
1.08
1.1
1.12
1.14
1000/T (1/K)

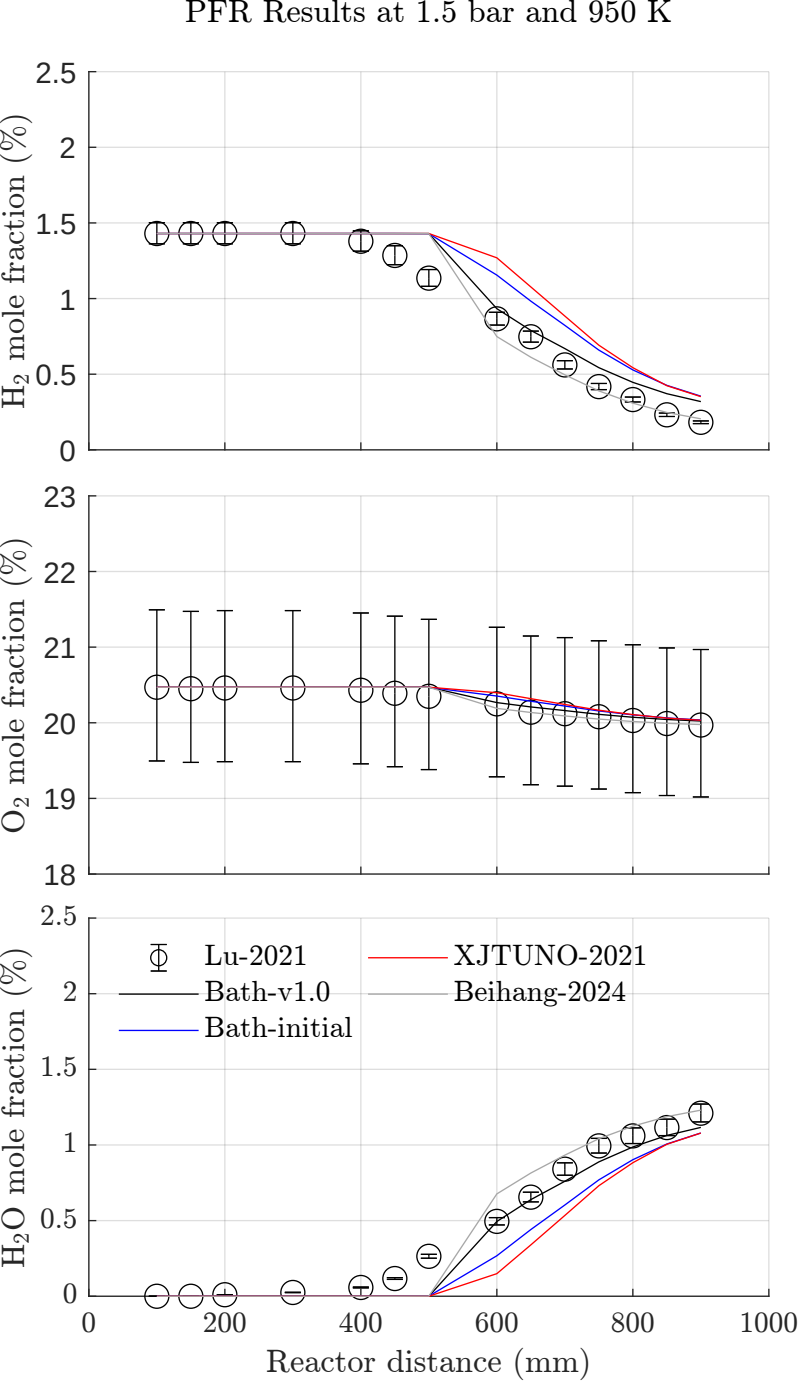

Hydrogen-Air Ignition Delay Times at 20 bar and Φ = 1
Panigraphy - 2023
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (ms)
1000/T (1/K)
10^3
10^2
10^1
10^0
1
1.02
1.04
1.06
1.08
1.1

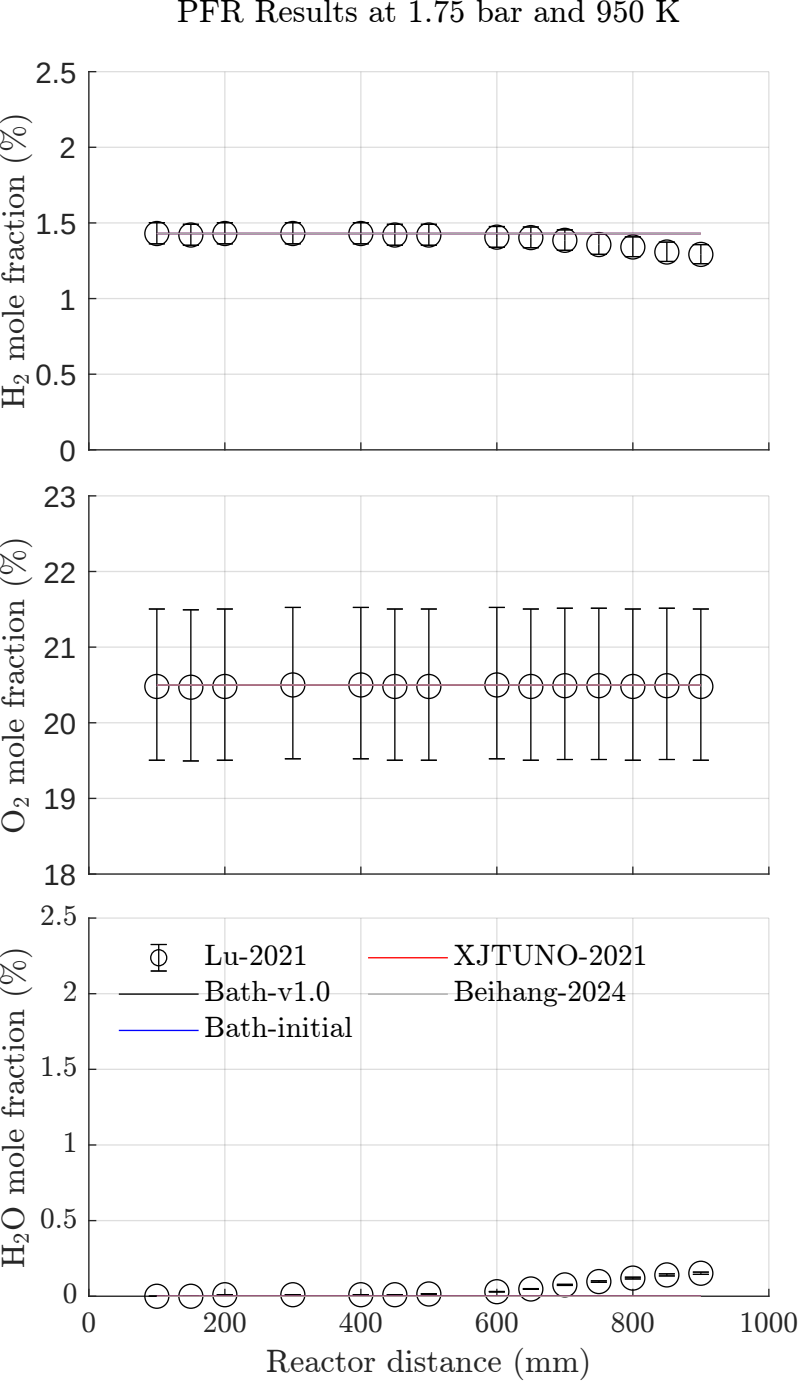

Hydrogen-Air Ignition Delay Times at 40 bar and Φ = 1
Panigraphy - 2023
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (ms)
10^3
10^2
10^1
10^0
1.02
1.04
1.06
1.08
1.1
1.12
1000/T (1/K)

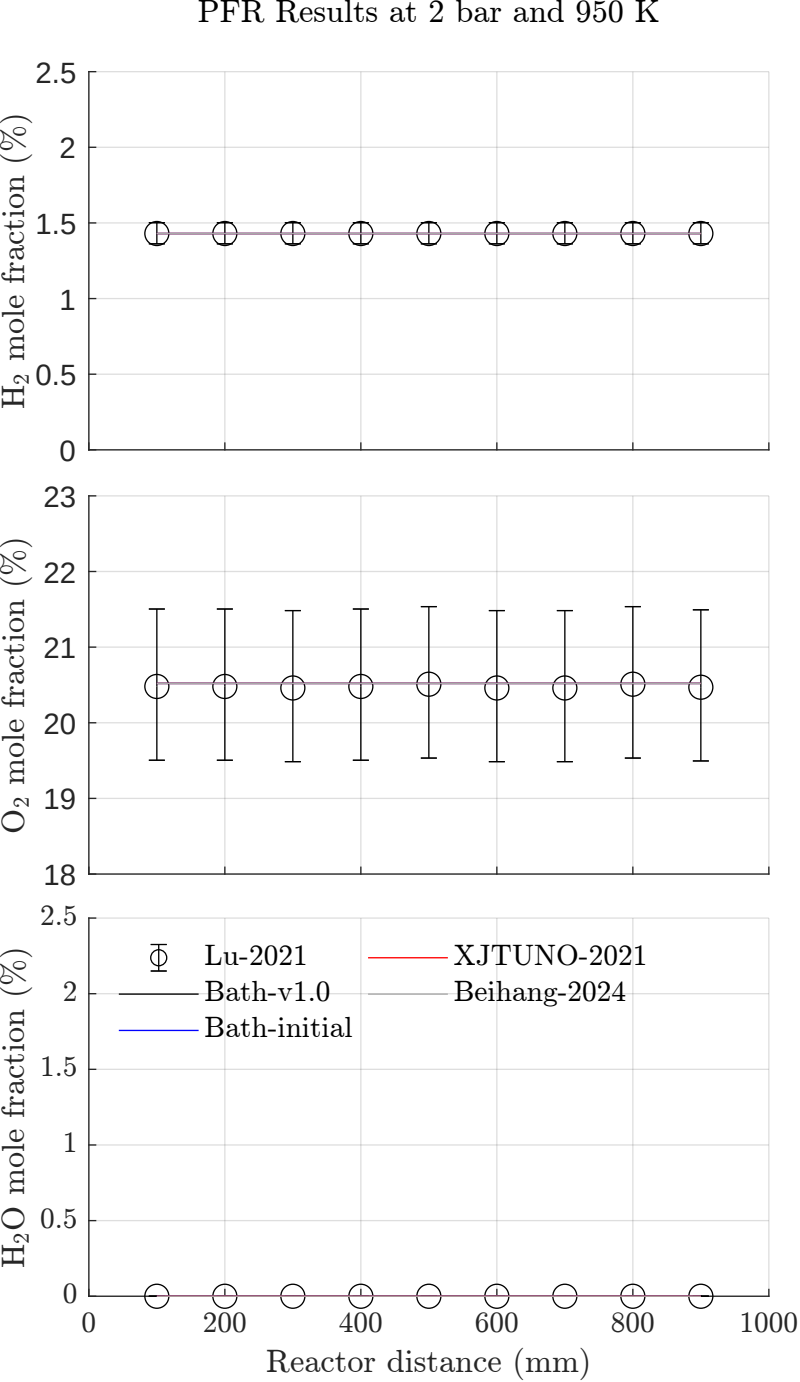

Hydrogen-Air Ignition Delay Times at 20 bar and Φ = 2
Panigraphy - 2023
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (ms)
1000/T (1/K)
10^3
10^2
10^1
10^0
1
1.02
1.04
1.06
1.08
1.1

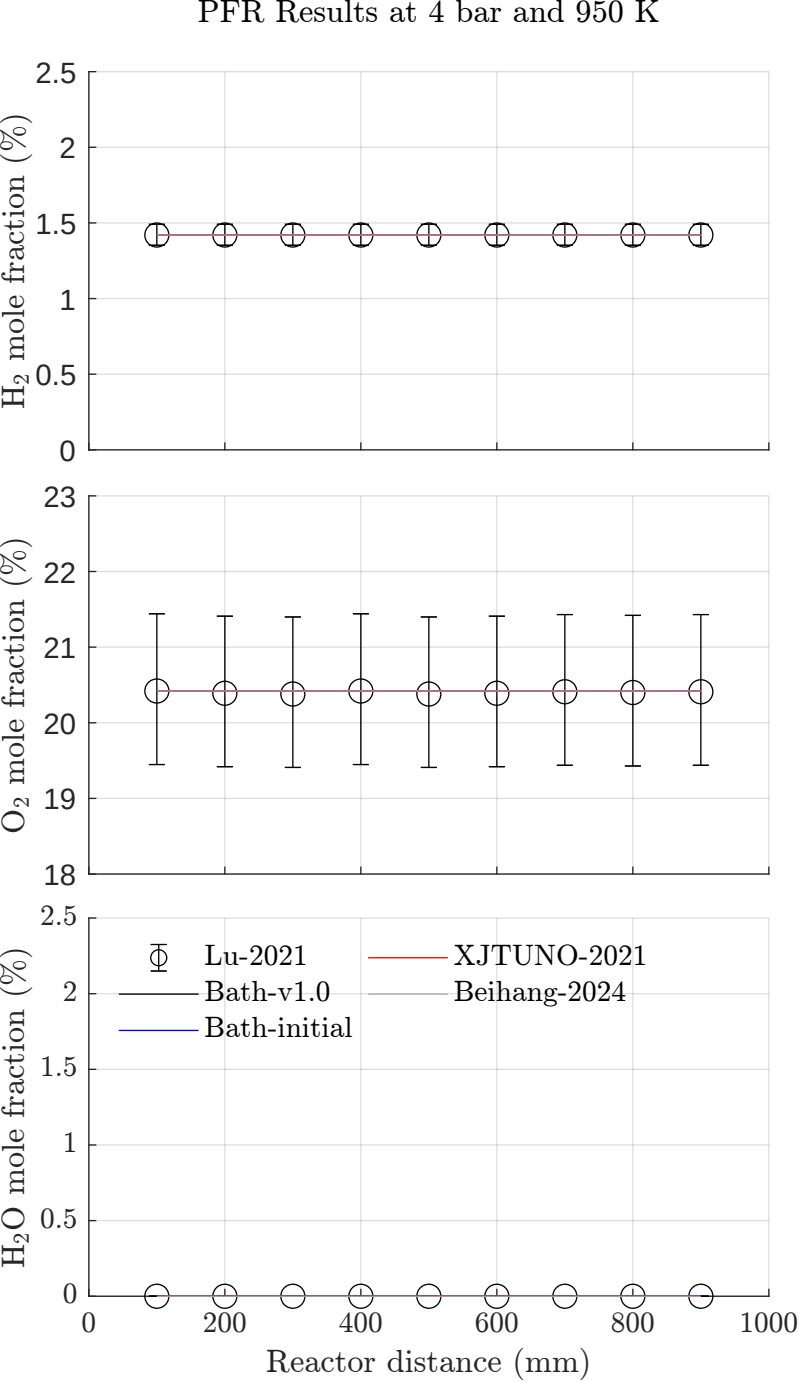

Hydrogen-Air Ignition Delay Times at 40 bar and Φ = 2
Panigraphy - 2023
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Ignition Delay Time (ms)
1000/T (1/K)
10^3
10^2
10^1
10^0
1
1.05
1.1
1.15

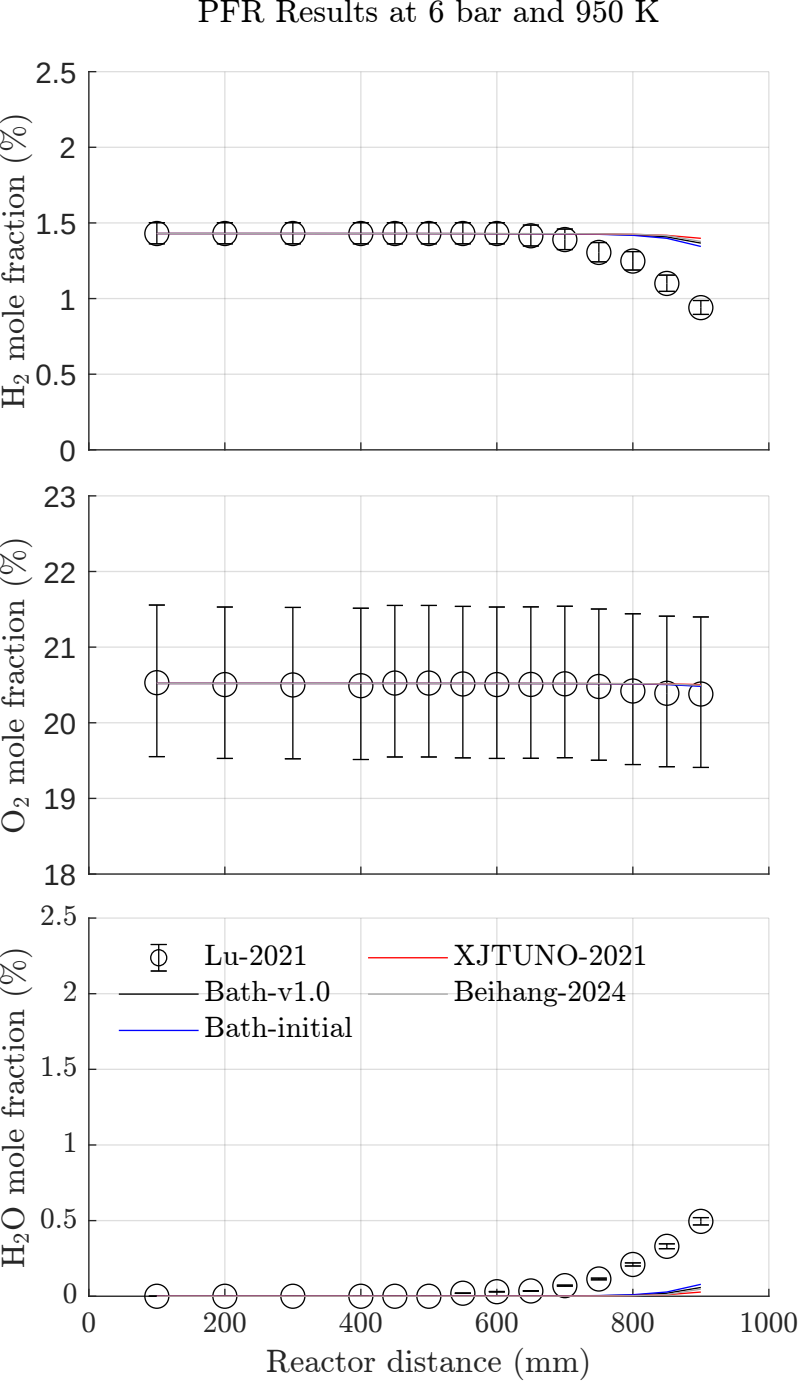

PFR Results at 1 atm and 950 K
H2 mole fraction (%)
O2 mole fraction (%)
H2O mole fraction (%)
Lu-2021
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Reactor distance (mm)

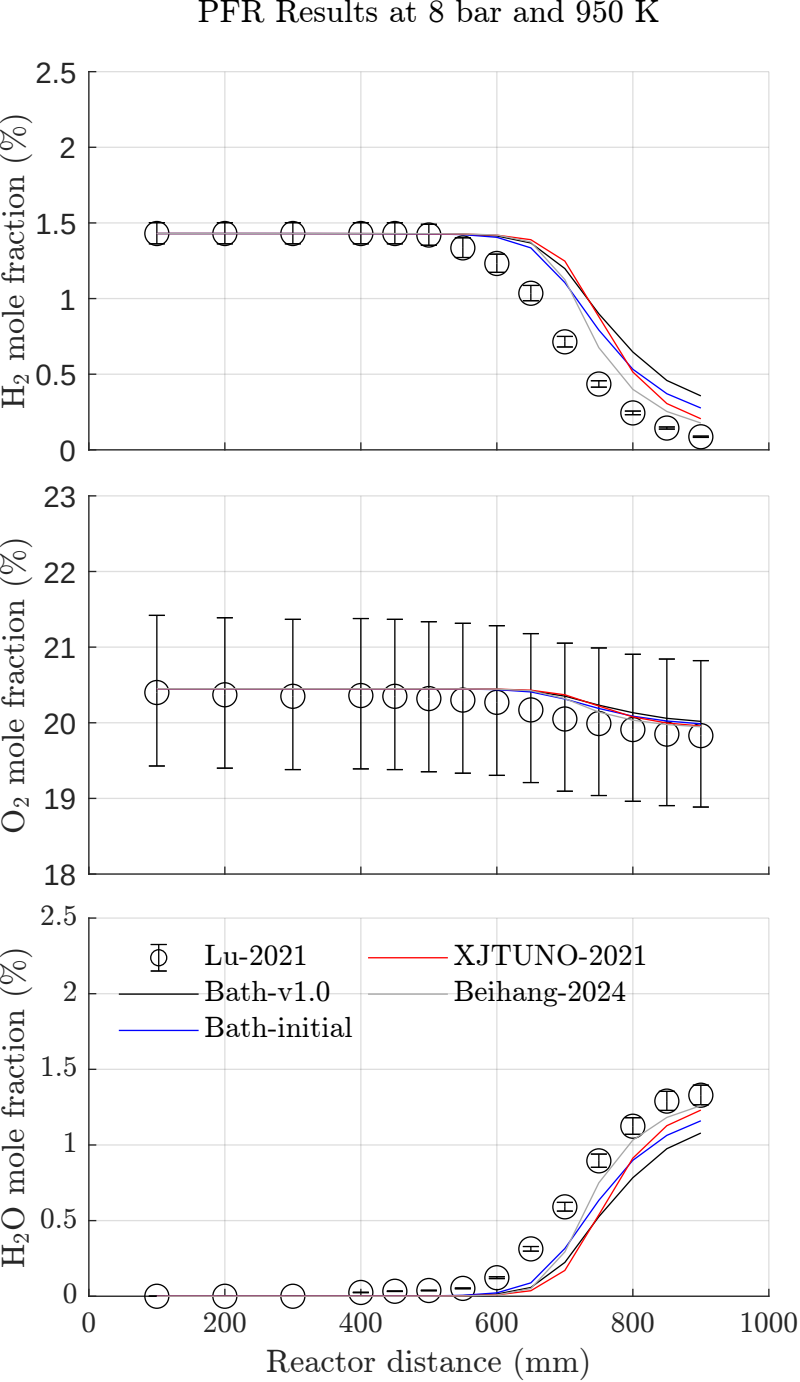

PFR Results at 1.5 bar and 950 K
H2 mole fraction (%)
O2 mole fraction (%)
H2O mole fraction (%)
Lu-2021
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Reactor distance (mm)

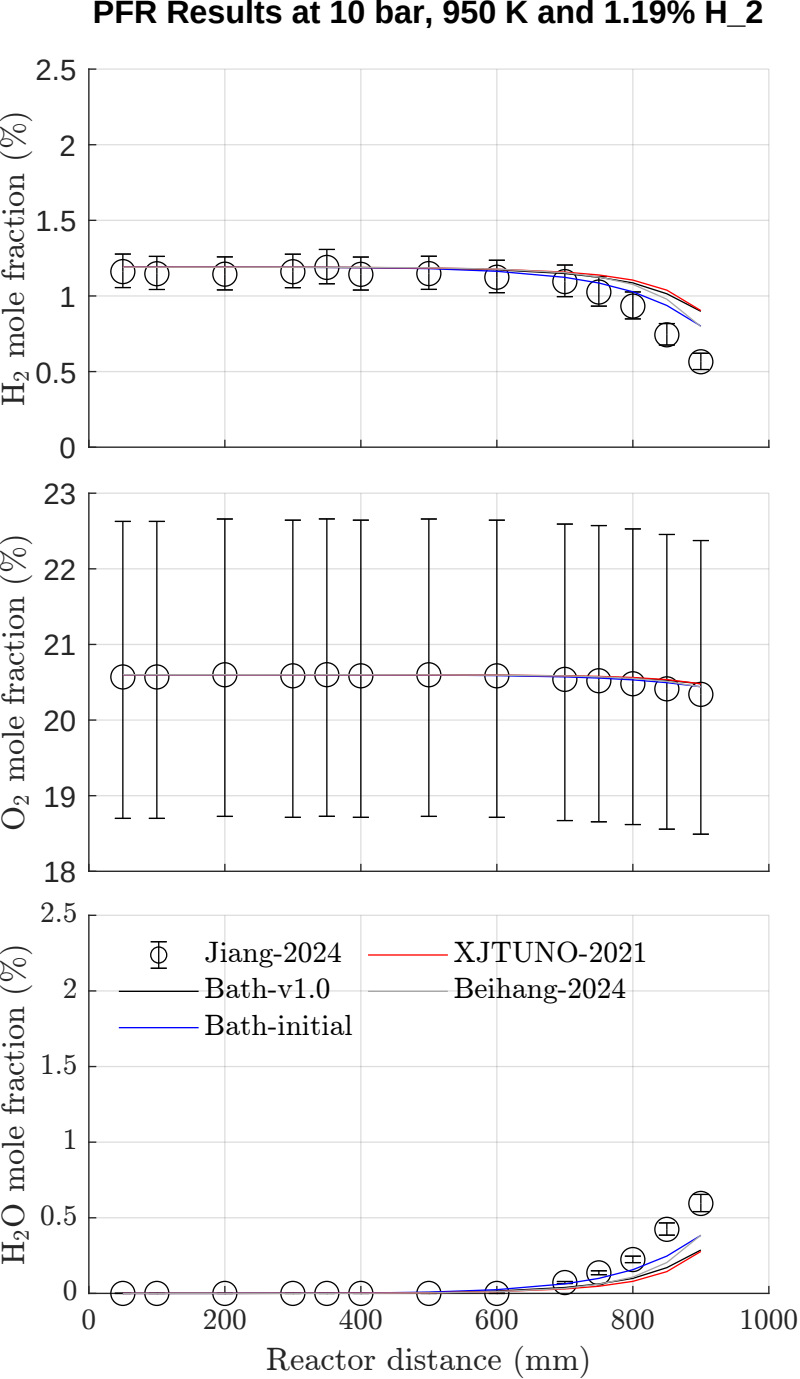

PFR Results at 1.75 bar and 950 K
H2 mole fraction (%)
O2 mole fraction (%)
H2O mole fraction (%)
Lu-2021
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Reactor distance (mm)

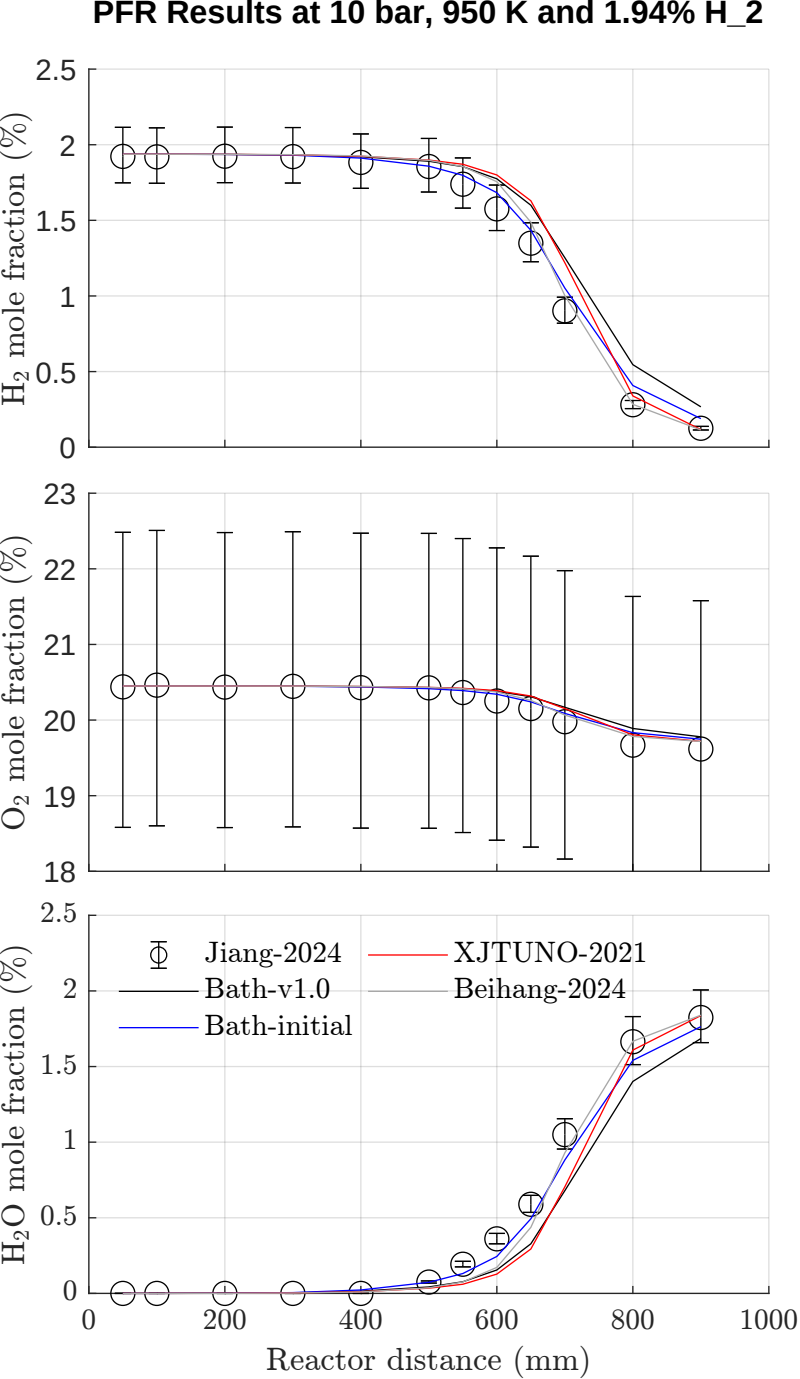

PFR Results at 2 bar and 950 K
H2 mole fraction (%)
O2 mole fraction (%)
H2O mole fraction (%)
Lu-2021
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Reactor distance (mm)

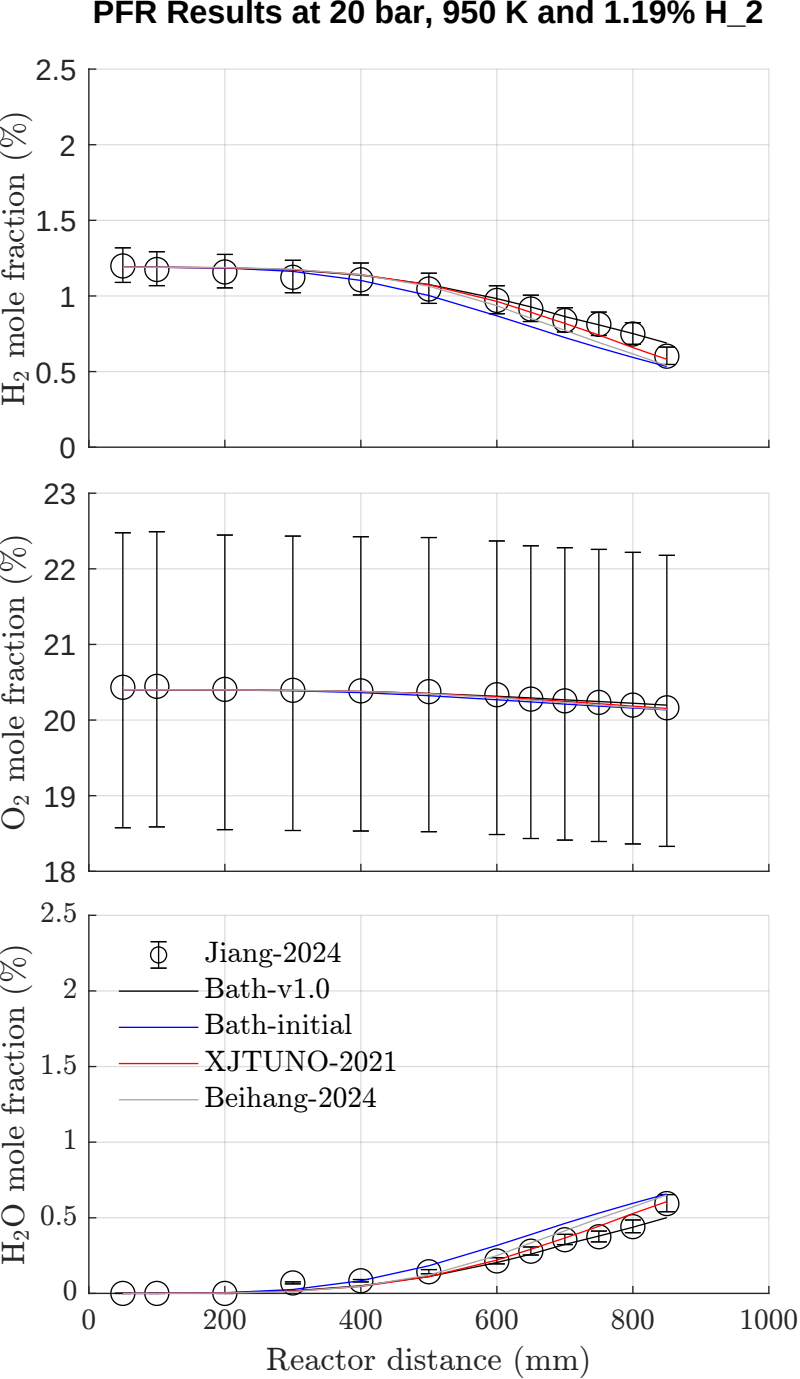

PFR Results at 4 bar and 950 K
H2 mole fraction (%)
O2 mole fraction (%)
H2O mole fraction (%)
Lu-2021
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Reactor distance (mm)

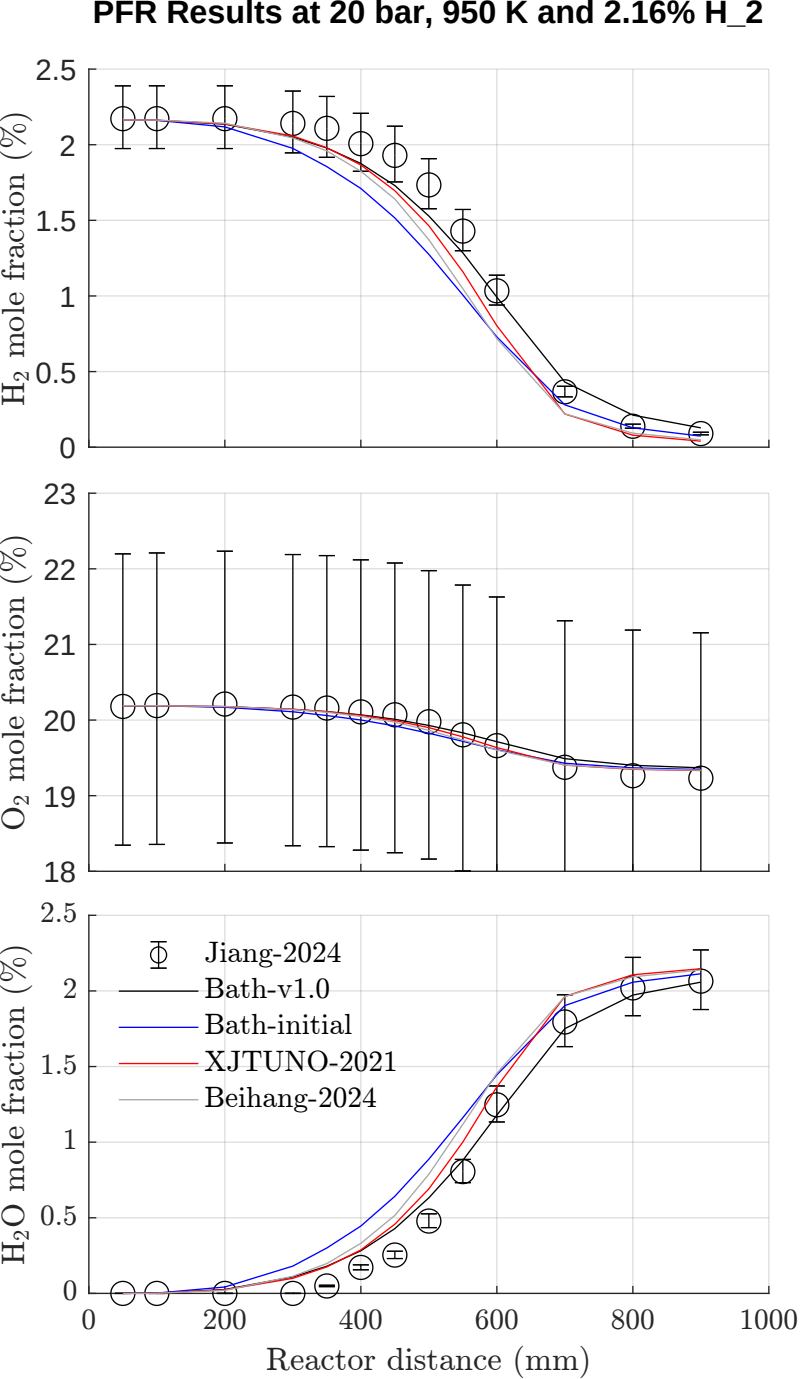

PFR Results at 6 bar and 950 K
H2 mole fraction (%)
O2 mole fraction (%)
H2O mole fraction (%)
Lu-2021
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Reactor distance (mm)

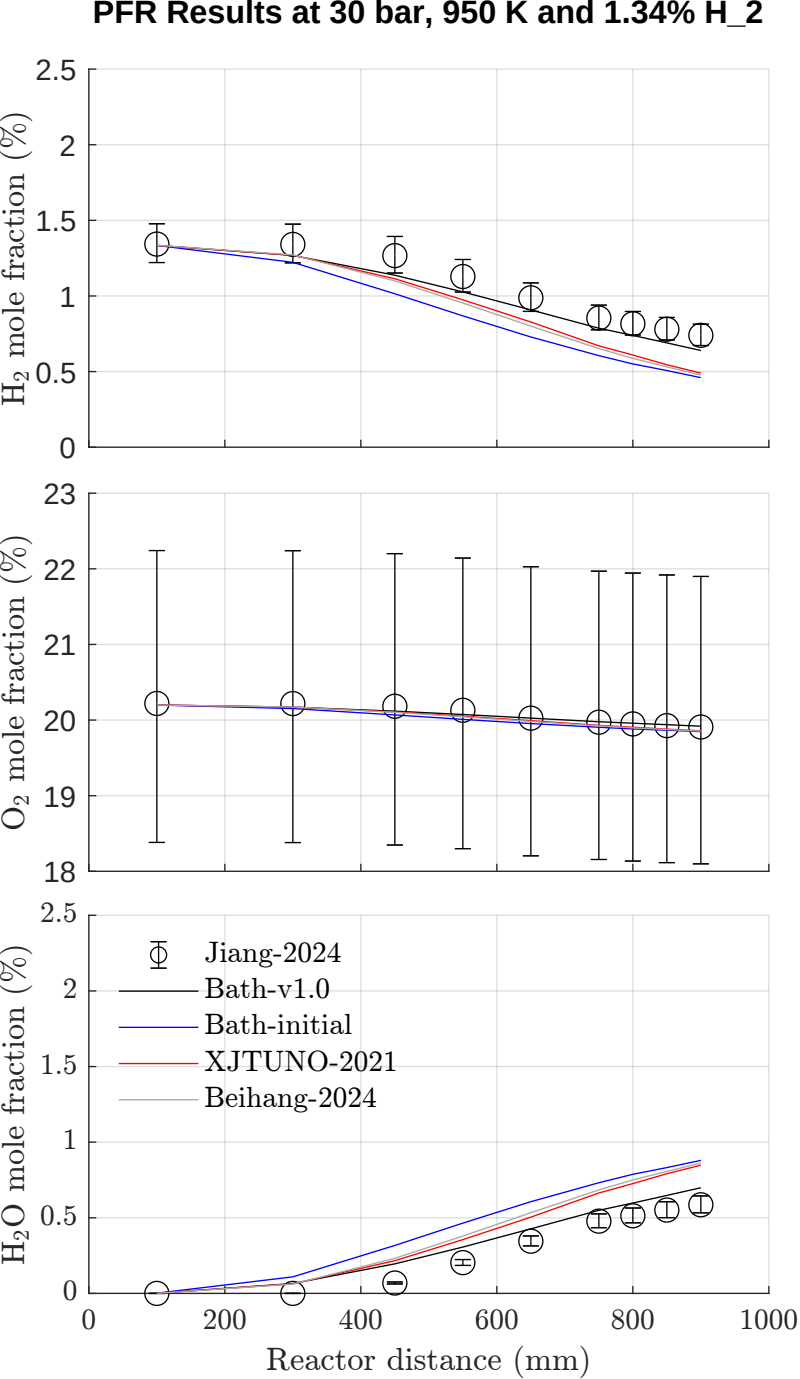

PFR Results at 8 bar and 950 K
H2 mole fraction (%)
O2 mole fraction (%)
H2O mole fraction (%)
Lu-2021
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Reactor distance (mm)

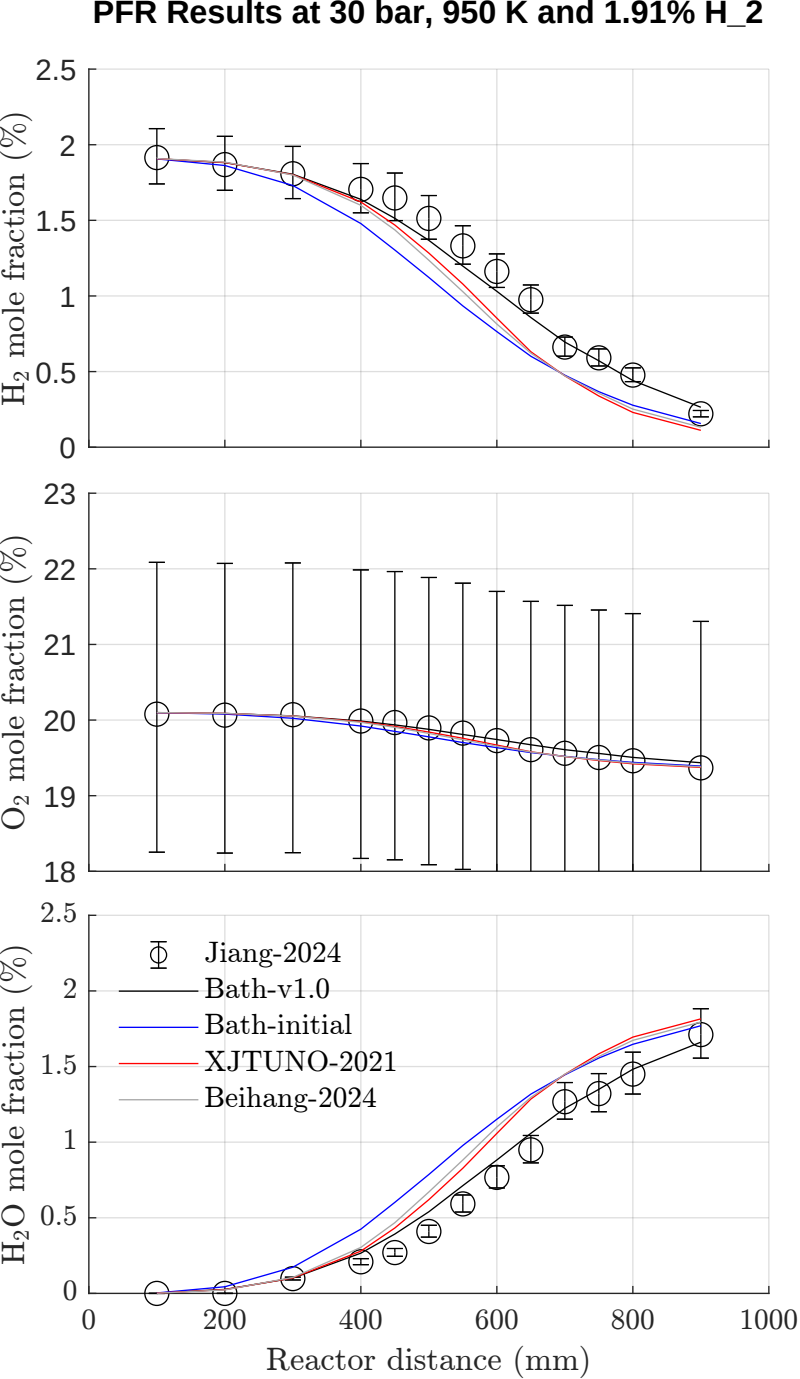

PFR Results at 10 bar, 950 K and 1.19% H_2
H2 mole fraction (%)
O2 mole fraction (%)
H2O mole fraction (%)
Jiang-2024
XJTUNO-2021
Bath-v1.0
Beihang-2024
Bath-initial
Reactor distance (mm)

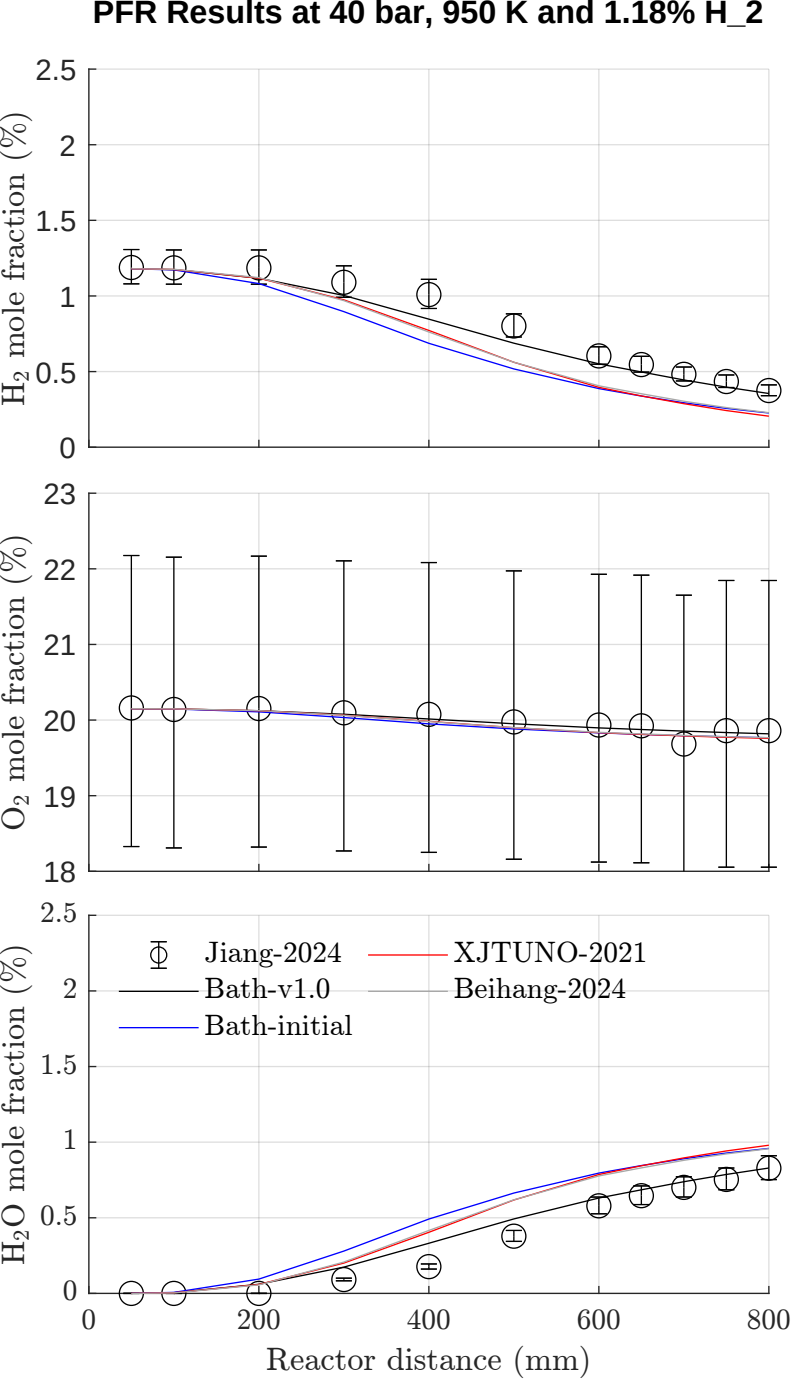

PFR Results at 10 bar, 950 K and 1.94% H_2
H2 mole fraction (%)
O2 mole fraction (%)
H2O mole fraction (%)
Jiang-2024
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Reactor distance (mm)

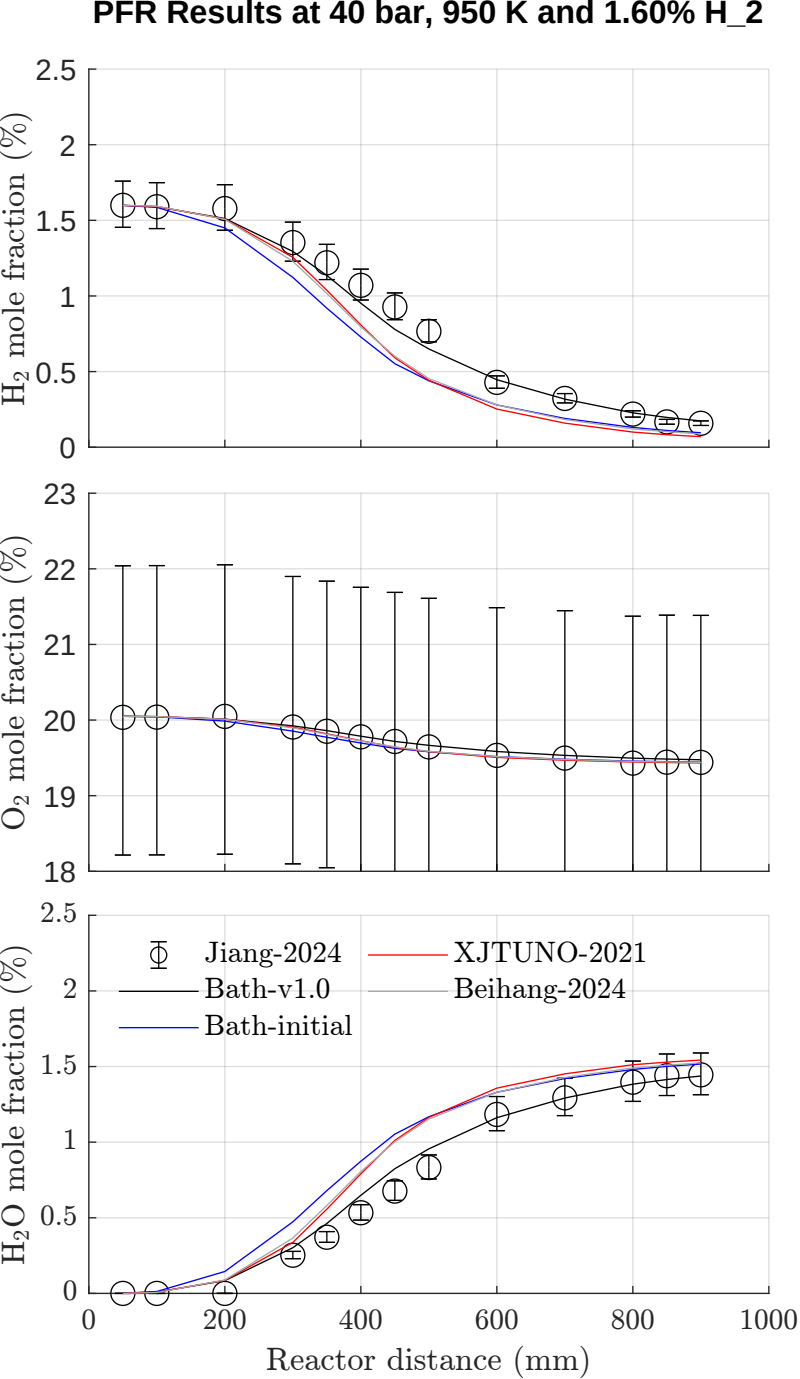

PFR Results at 20 bar, 950 K and 1.19% H_2
H2 mole fraction (%)
O2 mole fraction (%)
H2O mole fraction (%)
Jiang-2024
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Reactor distance (mm)

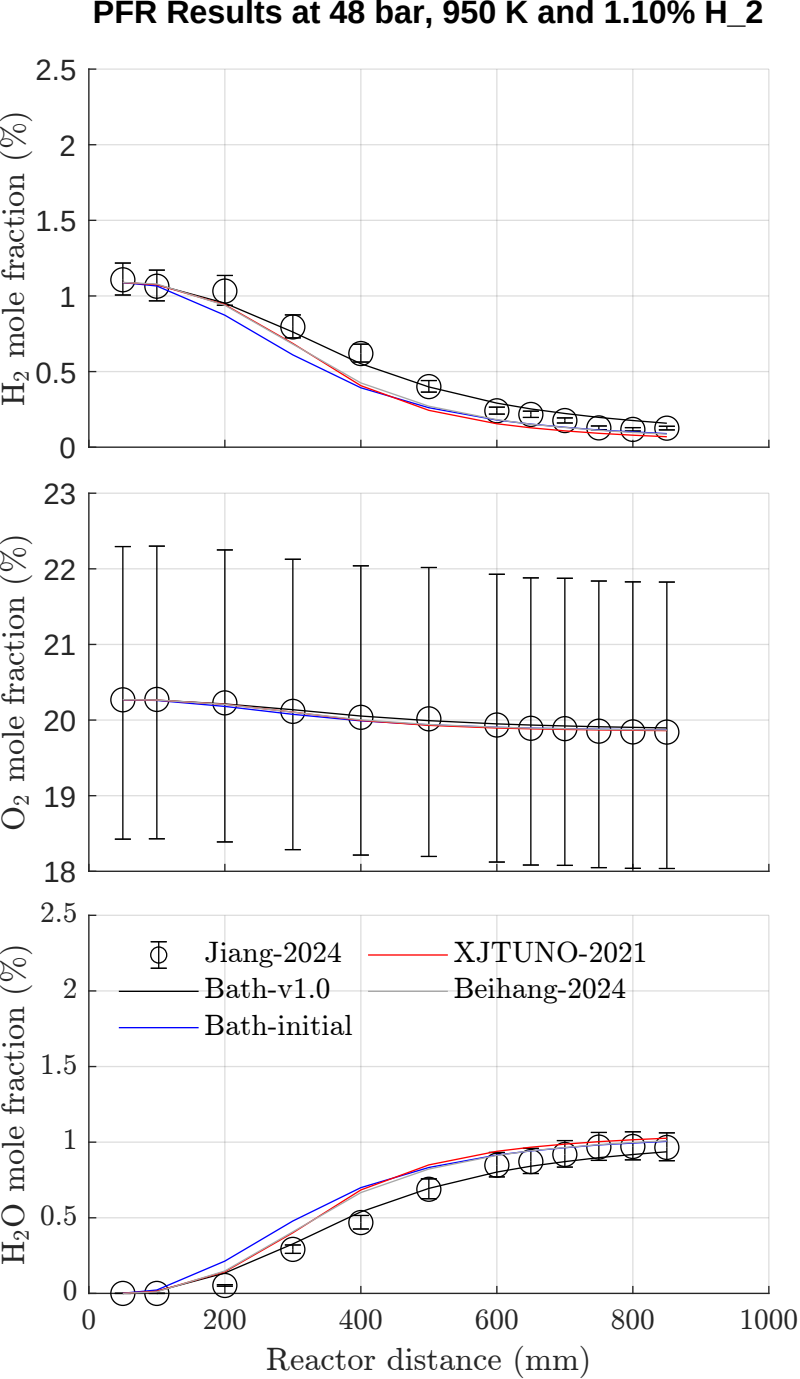

PFR Results at 20 bar, 950 K and 2.16% H_2
H2 mole fraction (%)
O2 mole fraction (%)
H2O mole fraction (%)
Jiang-2024
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Reactor distance (mm)

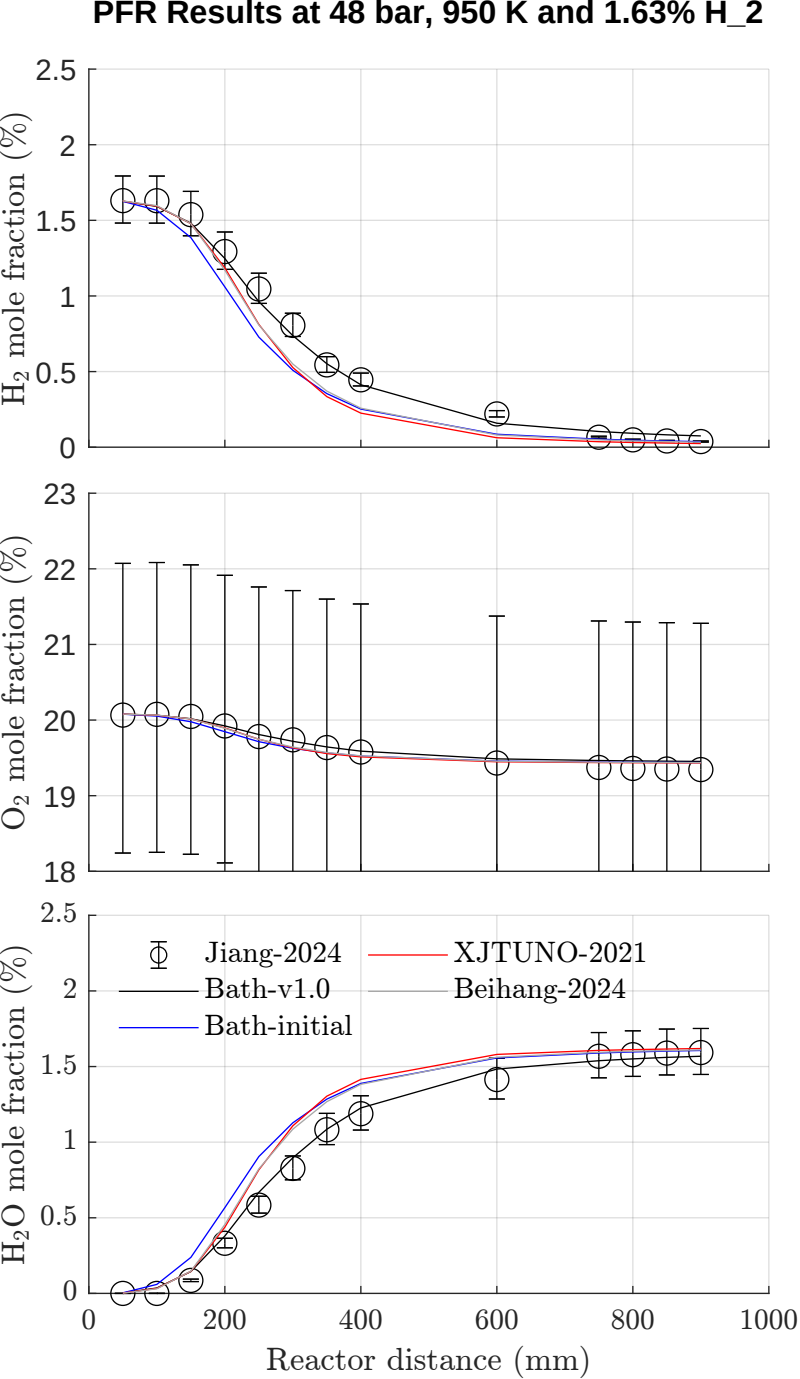

PFR Results at 30 bar, 950 K and 1.34% H_2
H2 mole fraction (%)
O2 mole fraction (%)
H2O mole fraction (%)
Jiang-2024
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Reactor distance (mm)

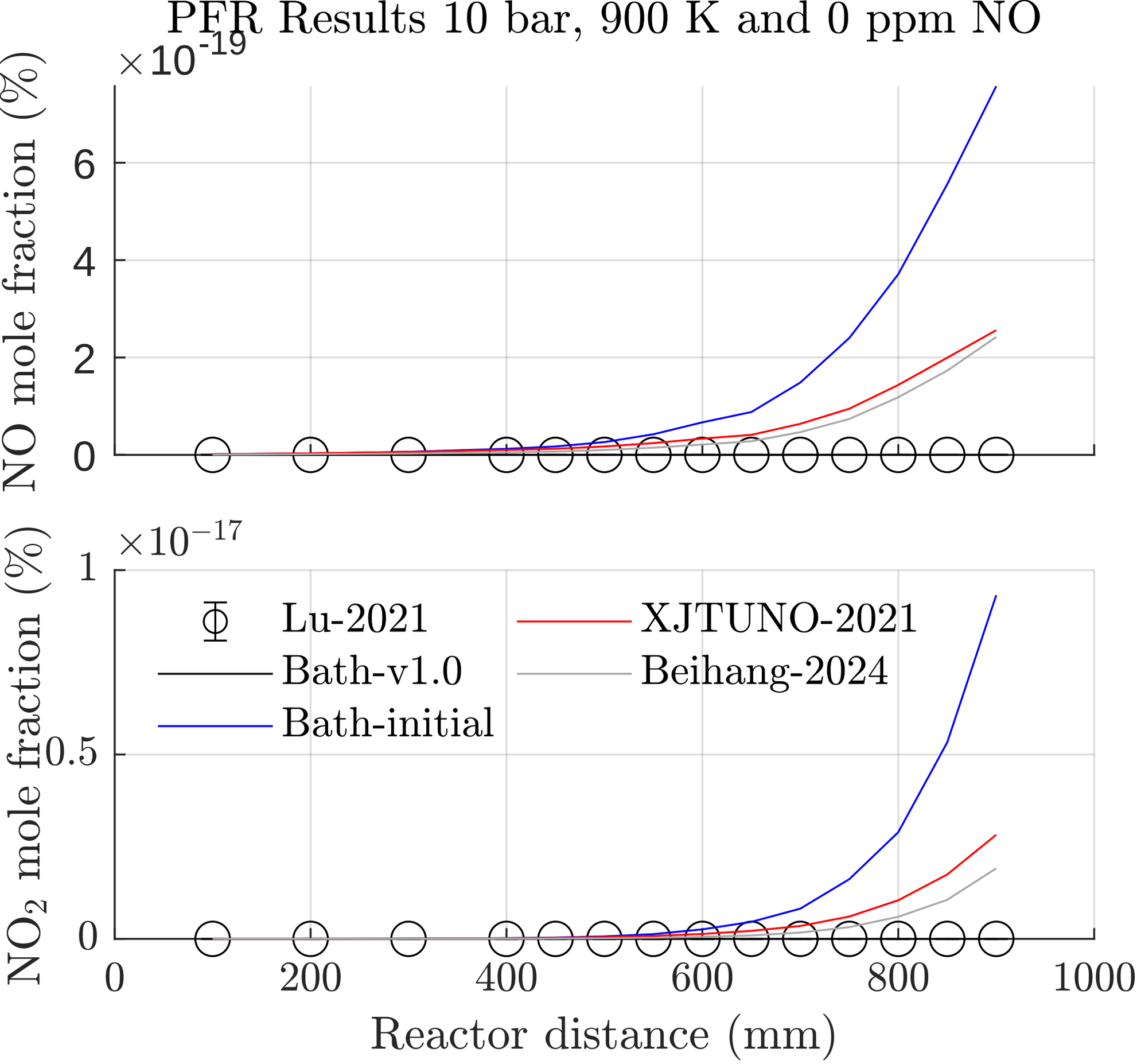

PFR Results at 30 bar, 950 K and 1.91% H_2
H2 mole fraction (%)
O2 mole fraction (%)
H2O mole fraction (%)
Jiang-2024
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Reactor distance (mm)

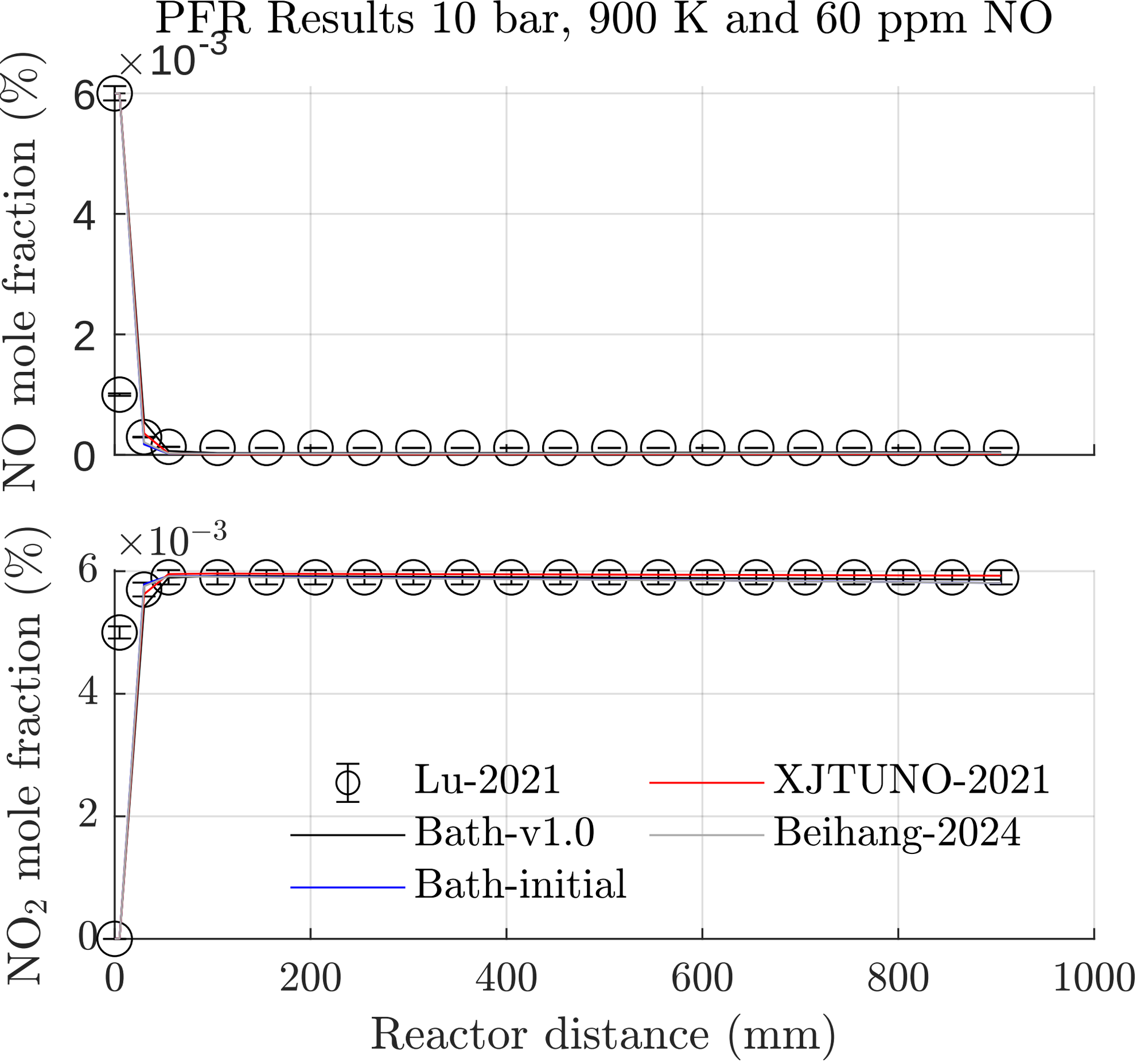

PFR Results at 40 bar, 950 K and 1.18% H_2
H2 mole fraction (%)
O2 mole fraction (%)
H2O mole fraction (%)
Jiang-2024
XJTUNO-2021
Bath-v1.0
Beihang-2024
Bath-initial
Reactor distance (mm)

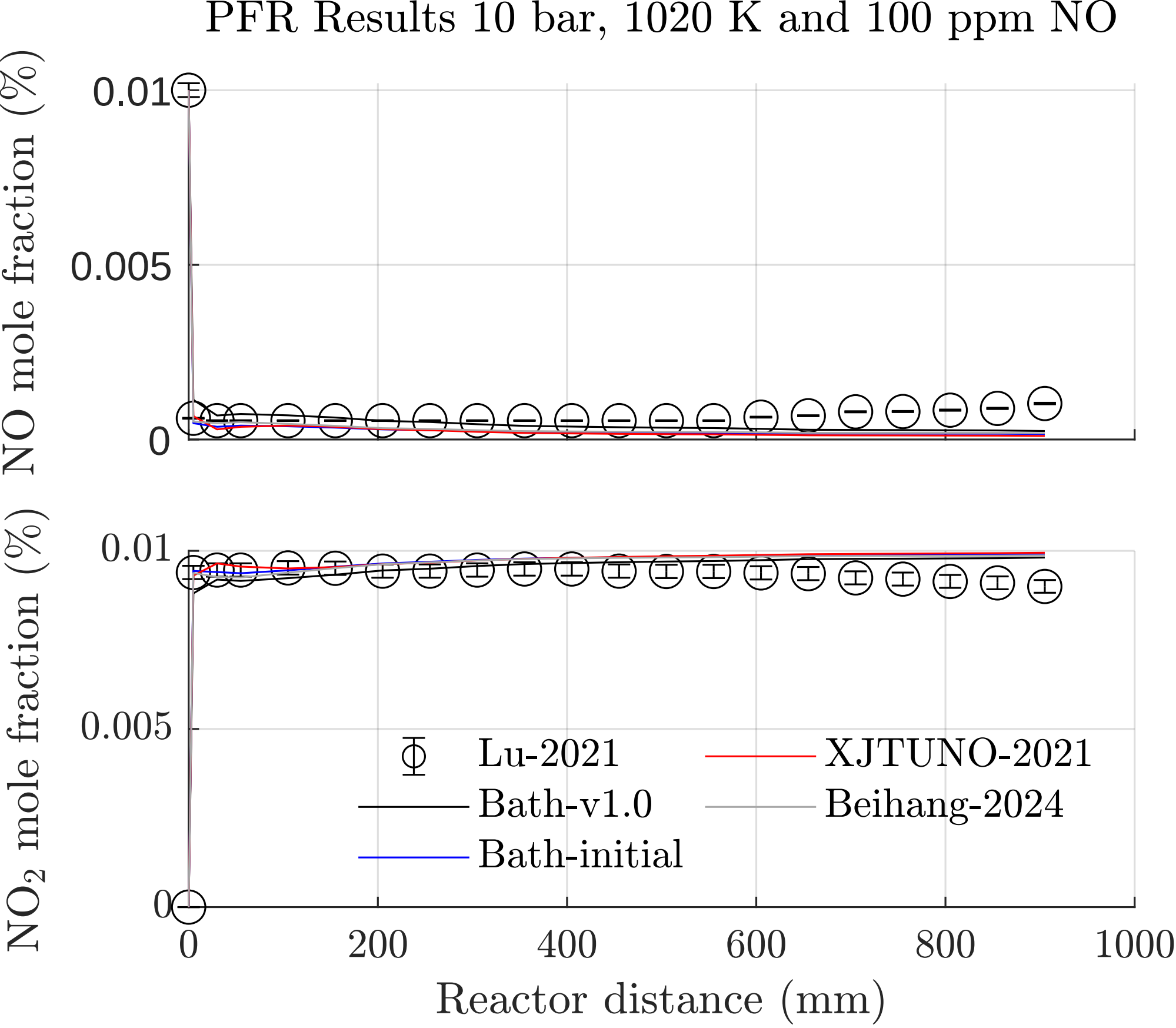

PFR Results at 40 bar, 950 K and 1.60% H_2
H2 mole fraction (%)
O2 mole fraction (%)
H2O mole fraction (%)
Jiang-2024
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Reactor distance (mm)

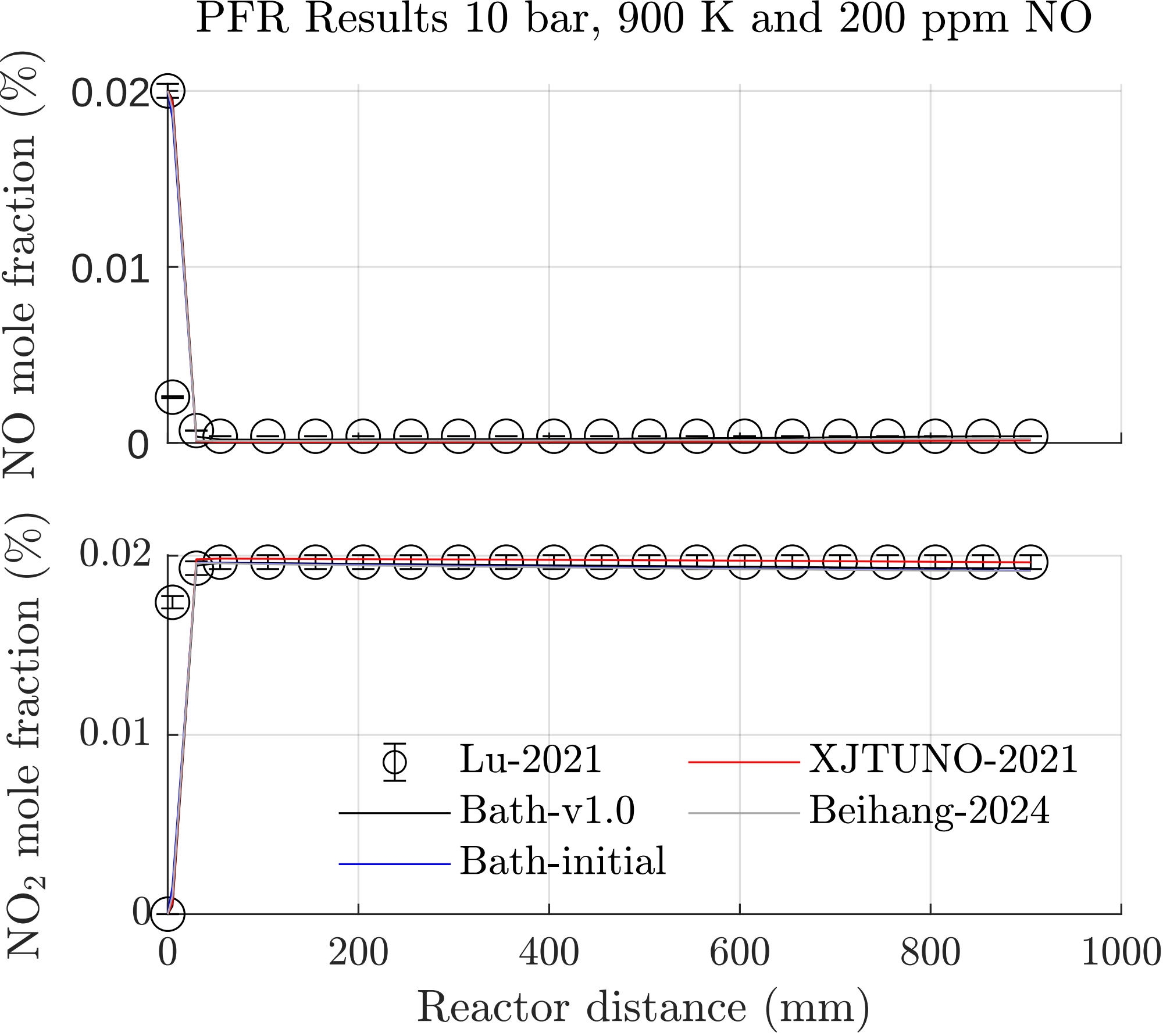

PFR Results at 48 bar, 950 K and 1.10% H_2
H2 mole fraction (%)
O2 mole fraction (%)
H2O mole fraction (%)
Jiang-2024
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
Reactor distance (mm)

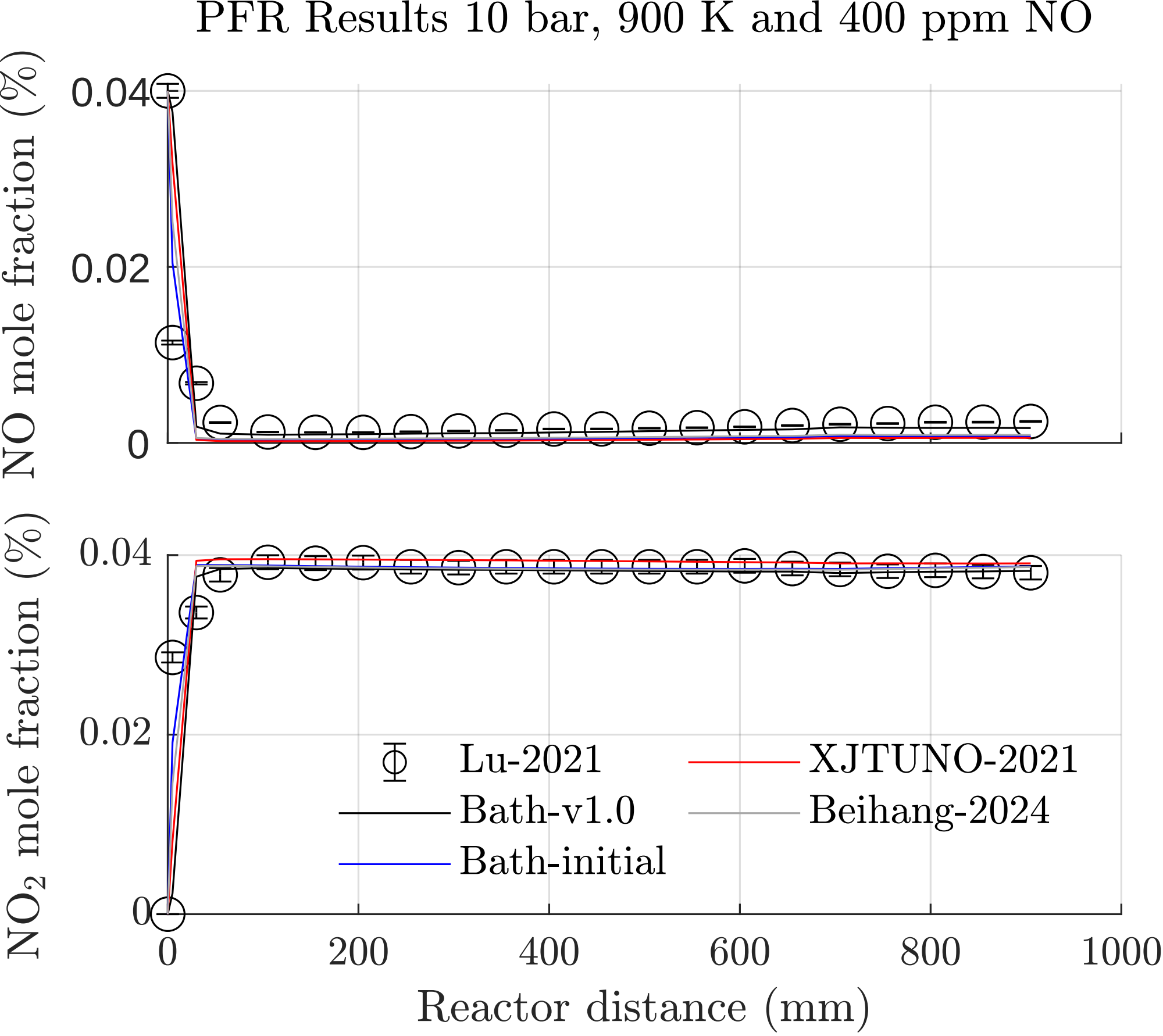

PFR Results at 48 bar, 950 K and 1.63% H_2
H2 mole fraction (%)
O2 mole fraction (%)
H2O mole fraction (%)
Jiang-2024
XJTUNO-2021
Bath-v1.0
Beihang-2024
Bath-initial
Reactor distance (mm)

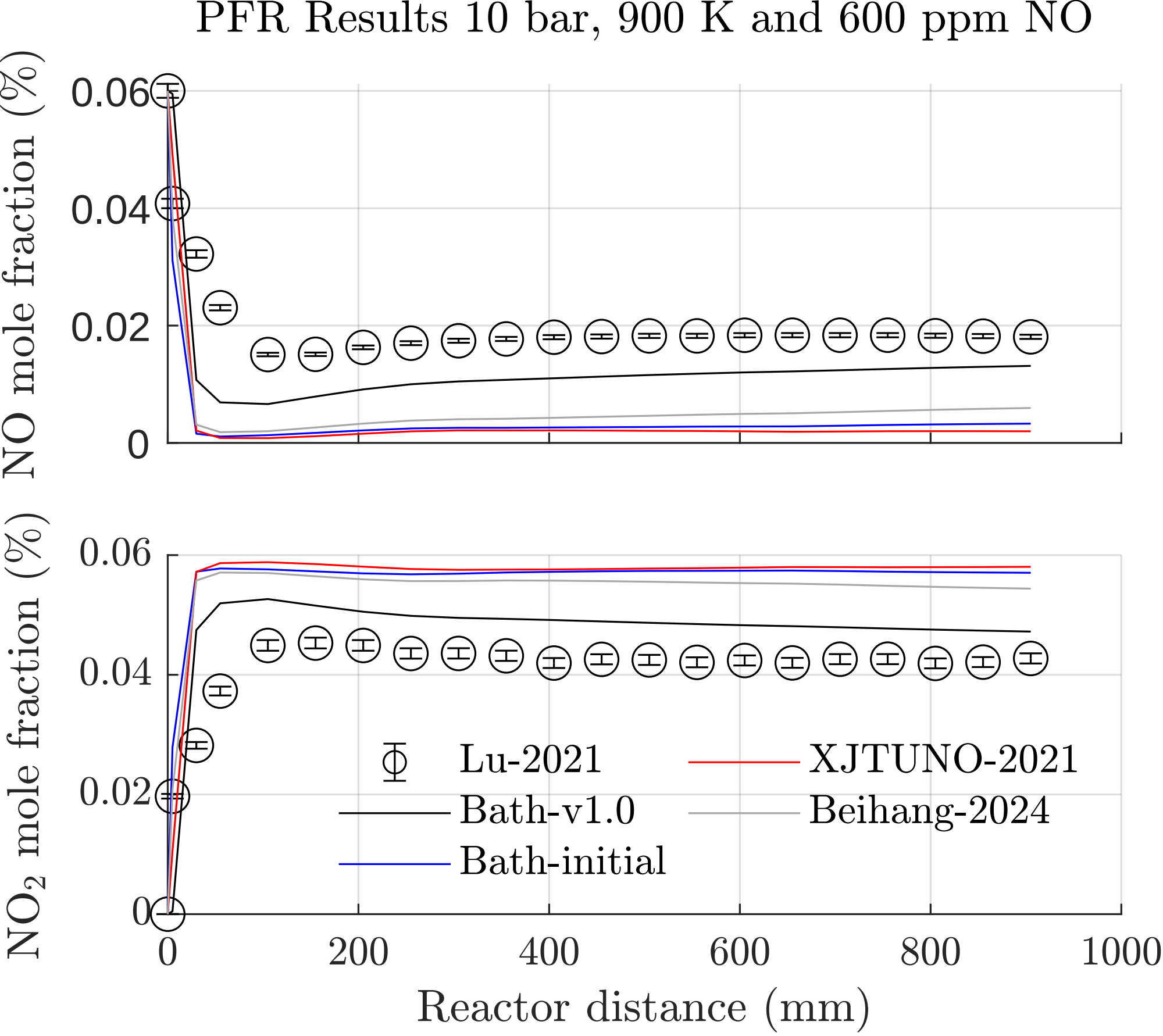

PFR Results 10 bar, 900 K and 0 ppm NO
×10-19
NO mole fraction (%)
6
4
2
0
×10−17
NO2 mole fraction (%)
1
0.5
0
Lu-2021
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
0
200
400
600
800
1000
Reactor distance (mm)

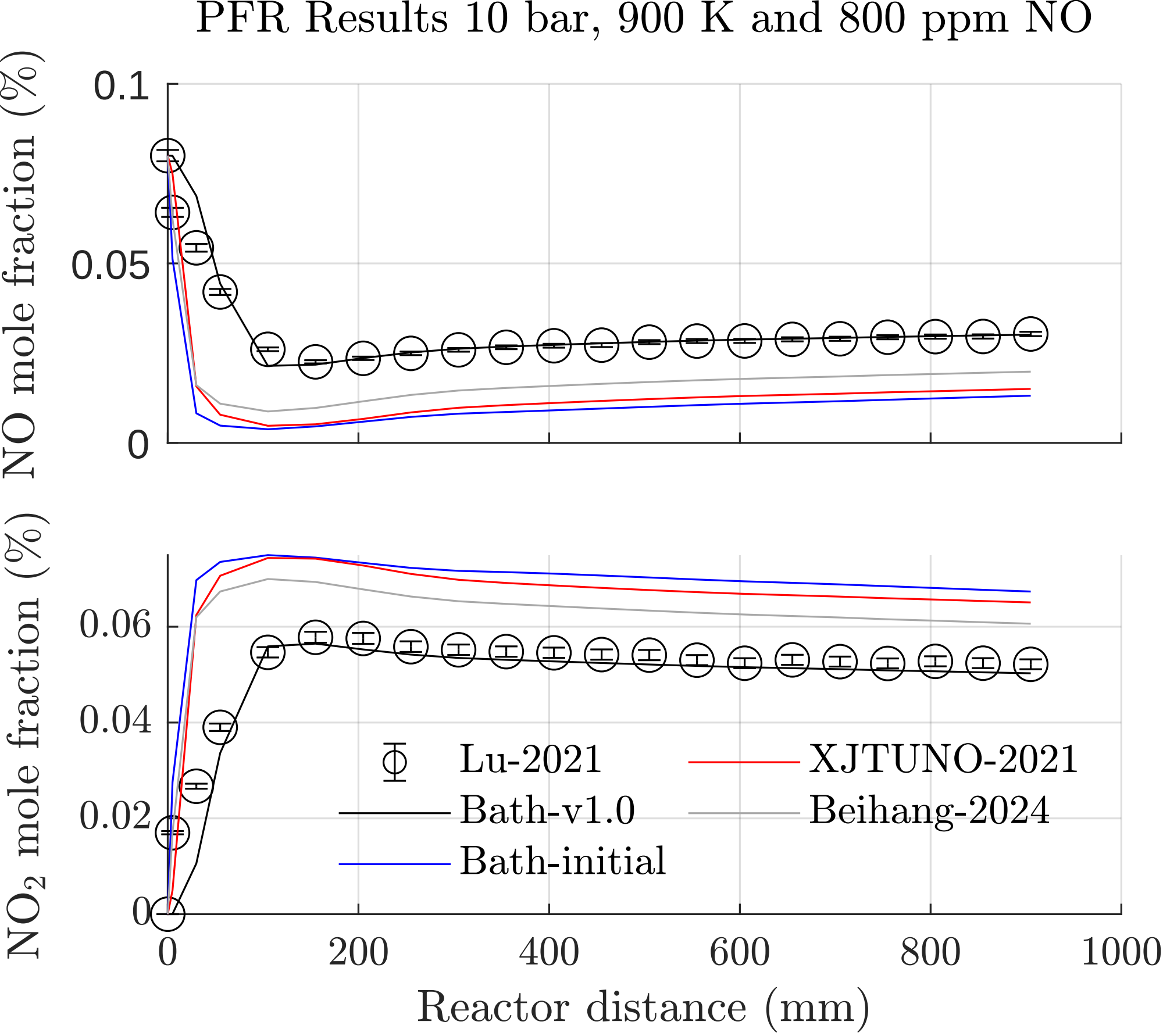

PFR Results 10 bar, 900 K and 60 ppm NO
NO mole fraction (%)
$\times 10^{-3}$
6
4
2
0
NO_2 mole fraction (%)
$\times 10^{-3}$
6
4
2
0
Lu-2021
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
0
200
400
600
800
1000
Reactor distance (mm)

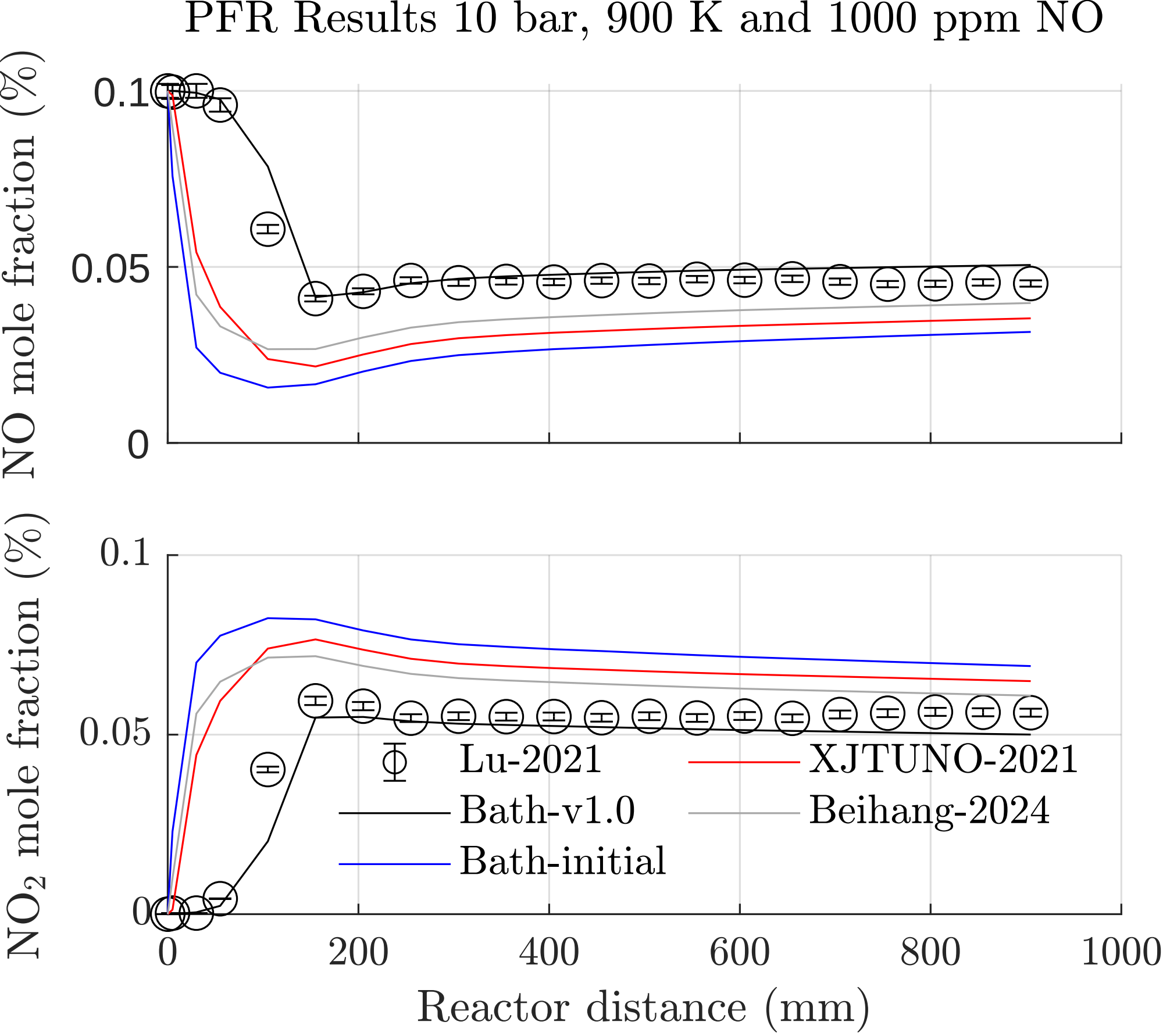

PFR Results 10 bar, 1020 K and 100 ppm NO
NO mole fraction (%)
0.01
0.005
0
NO2 mole fraction (%)
0.01
0.005
0
0
200
400
600
800
1000
Reactor distance (mm)
Lu-2021
XJTUNO-2021
Bath-v1.0
Beihang-2024
Bath-initial

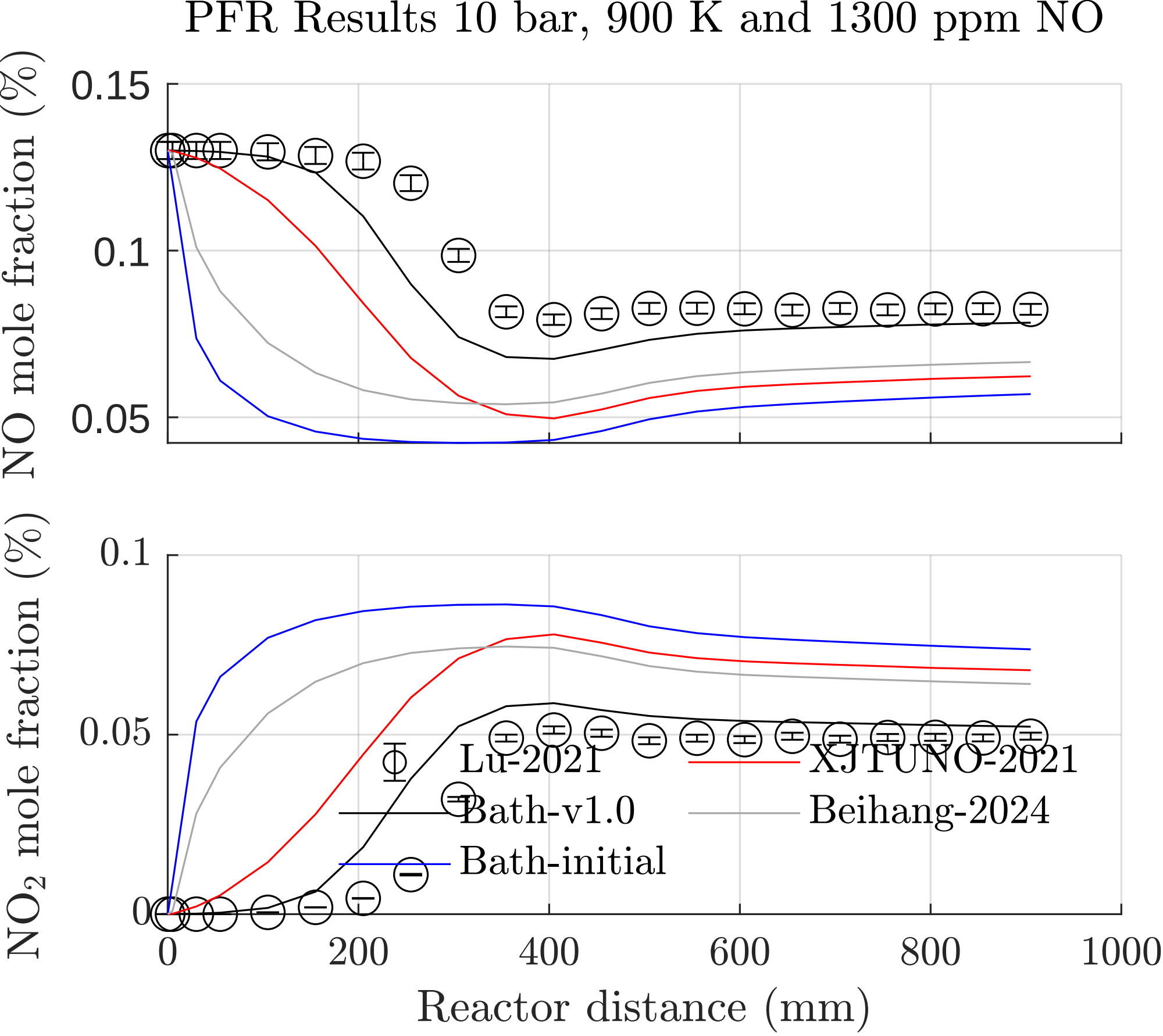

PFR Results 10 bar, 900 K and 200 ppm NO
NO mole fraction (%)
0.02
0.01
0
NO2 mole fraction (%)
0.02
0.01
0
0
200
400
600
800
1000
Reactor distance (mm)
Lu-2021
XJTUNO-2021
Bath-v1.0
Beihang-2024
Bath-initial

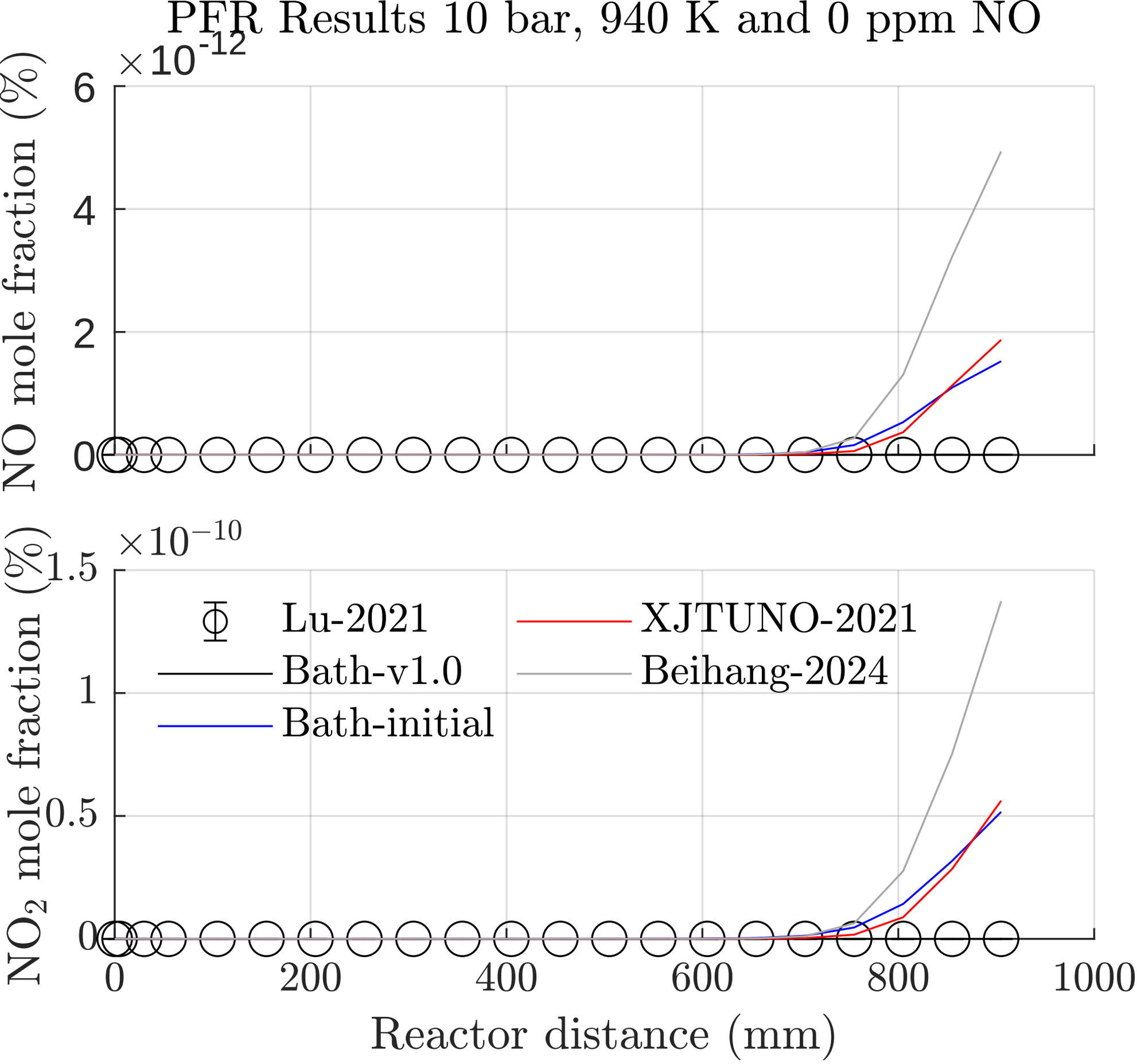

PFR Results 10 bar, 900 K and 400 ppm NO
NO mole fraction (%)
0.04
0.02
0
NO2 mole fraction (%)
0.04
0.02
0
0
200
400
600
800
1000
Reactor distance (mm)
Lu-2021
XJTUNO-2021
Bath-v1.0
Beihang-2024
Bath-initial

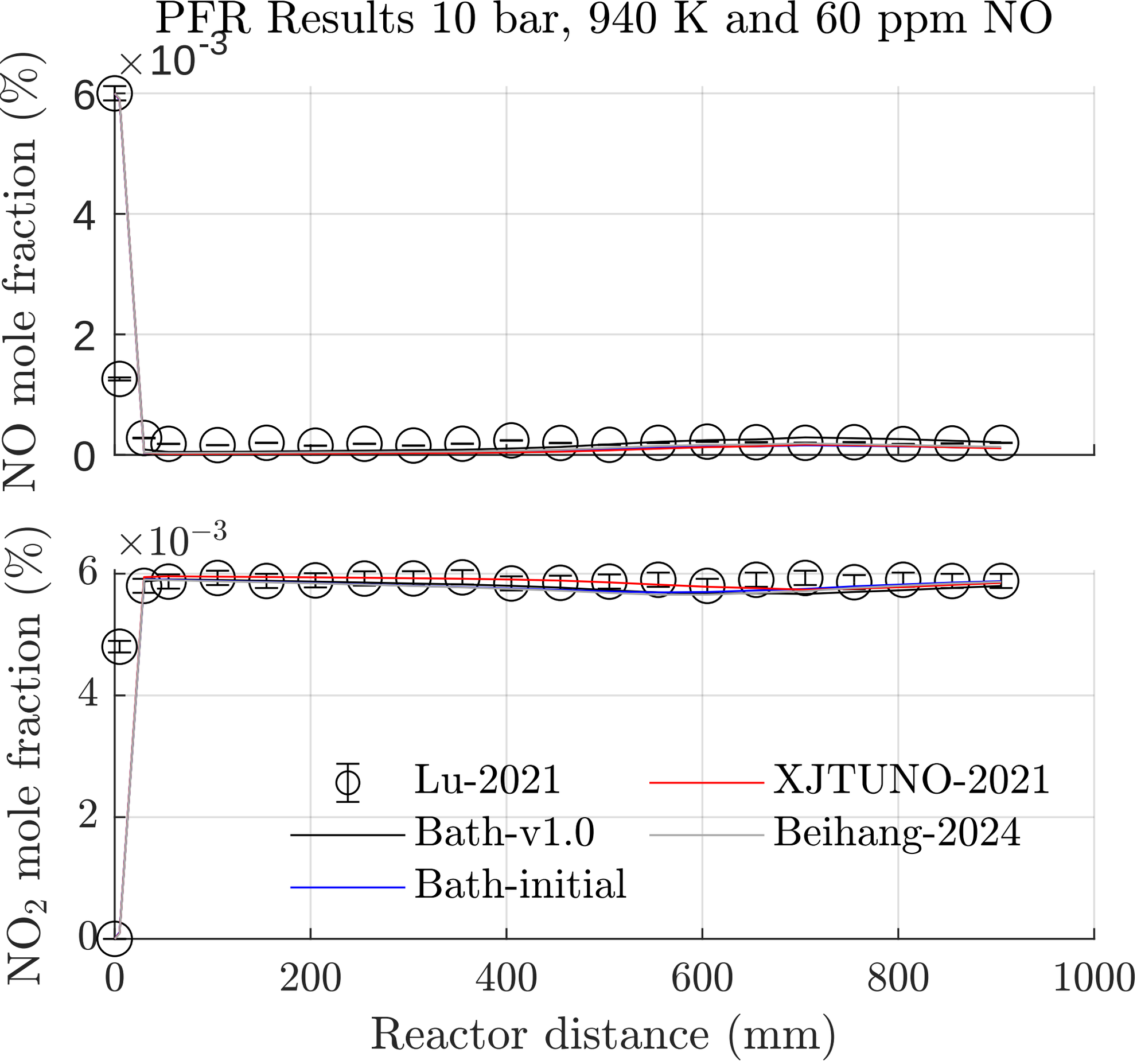

PFR Results 10 bar, 900 K and 600 ppm NO
NO mole fraction (%)
0.06
0.04
0.02
0
NO2 mole fraction (%)
0.06
0.04
0.02
0
0
200
400
600
800
1000
Reactor distance (mm)
Lu-2021
XJTUNO-2021
Bath-v1.0
Beihang-2024
Bath-initial

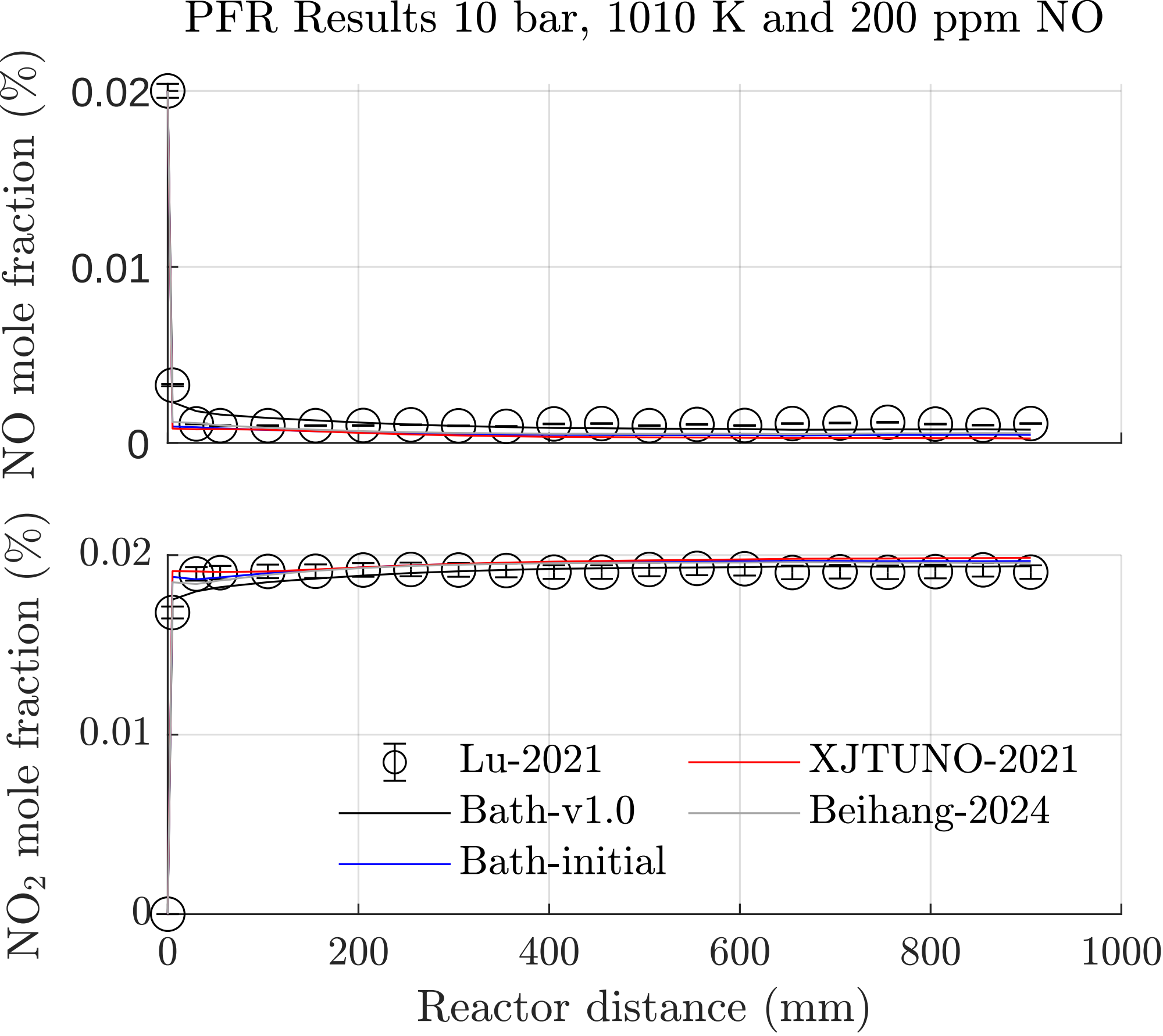

PFR Results 10 bar, 900 K and 800 ppm NO
NO mole fraction (%)
0.1
0.05
0
NO2 mole fraction (%)
0.06
0.04
0.02
0
0
200
400
600
800
1000
Reactor distance (mm)
Lu-2021
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024

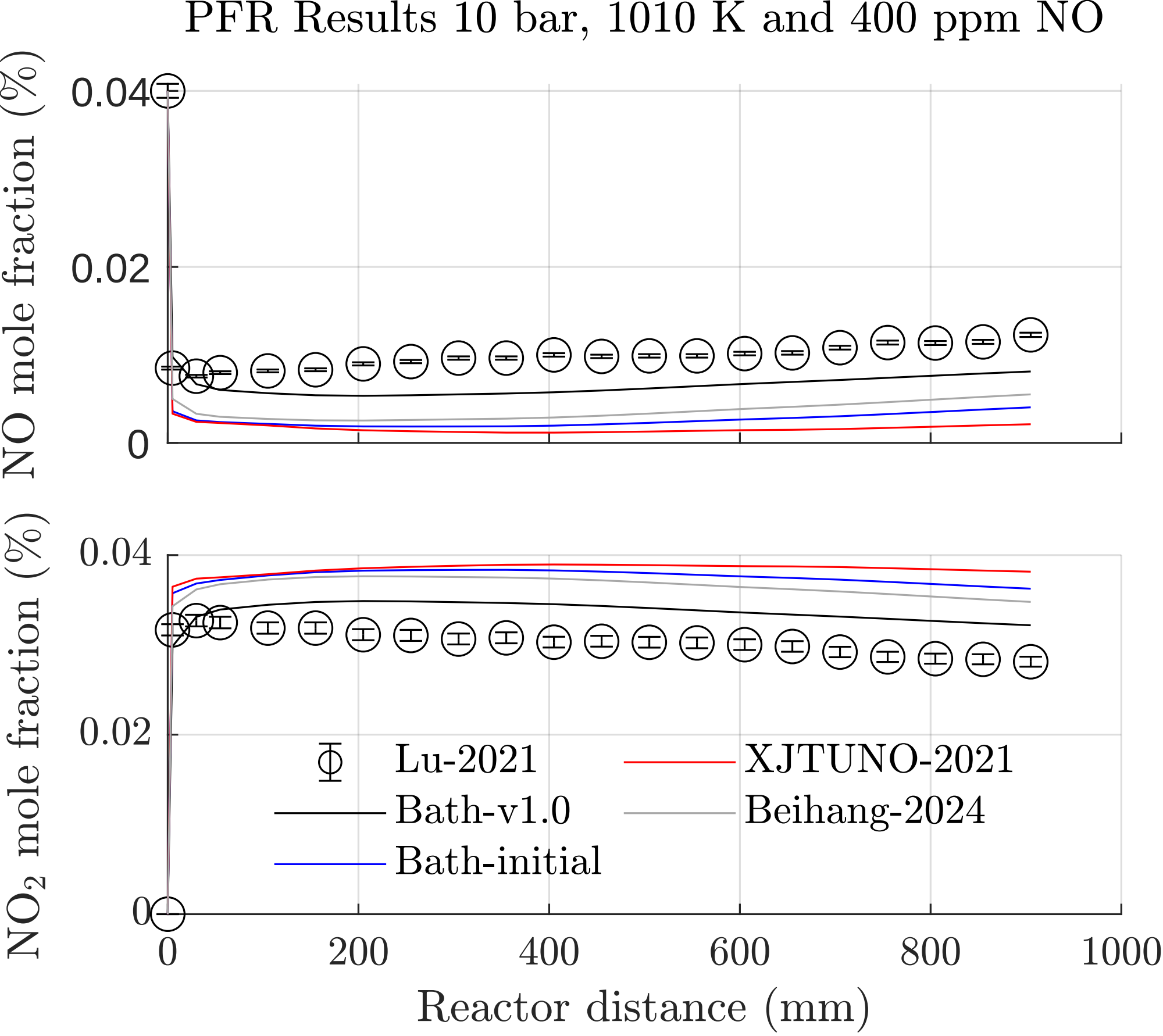

PFR Results 10 bar, 900 K and 1000 ppm NO
NO mole fraction (%)
0.1
0.05
0
NO2 mole fraction (%)
0.1
0.05
0
0
200
400
600
800
1000
Reactor distance (mm)
Lu-2021
XJTUNO-2021
Bath-v1.0
Beihang-2024
Bath-initial

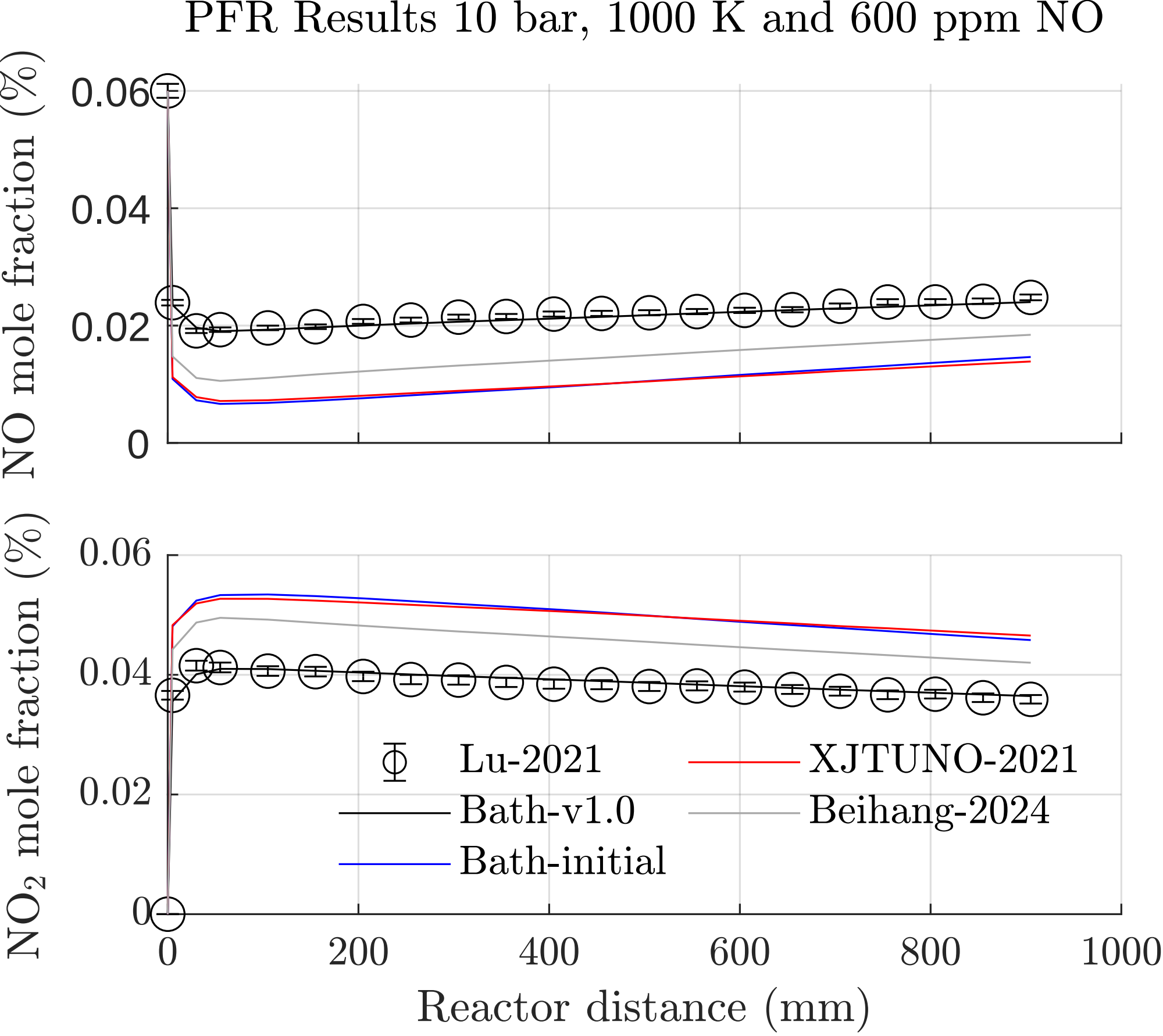

PFR Results 10 bar, 900 K and 1300 ppm NO
NO mole fraction (%)
0.15
0.1
0.05
NO2 mole fraction (%)
0.1
0.05
0
0
200
400
600
800
1000
Reactor distance (mm)
Lu-2021
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024

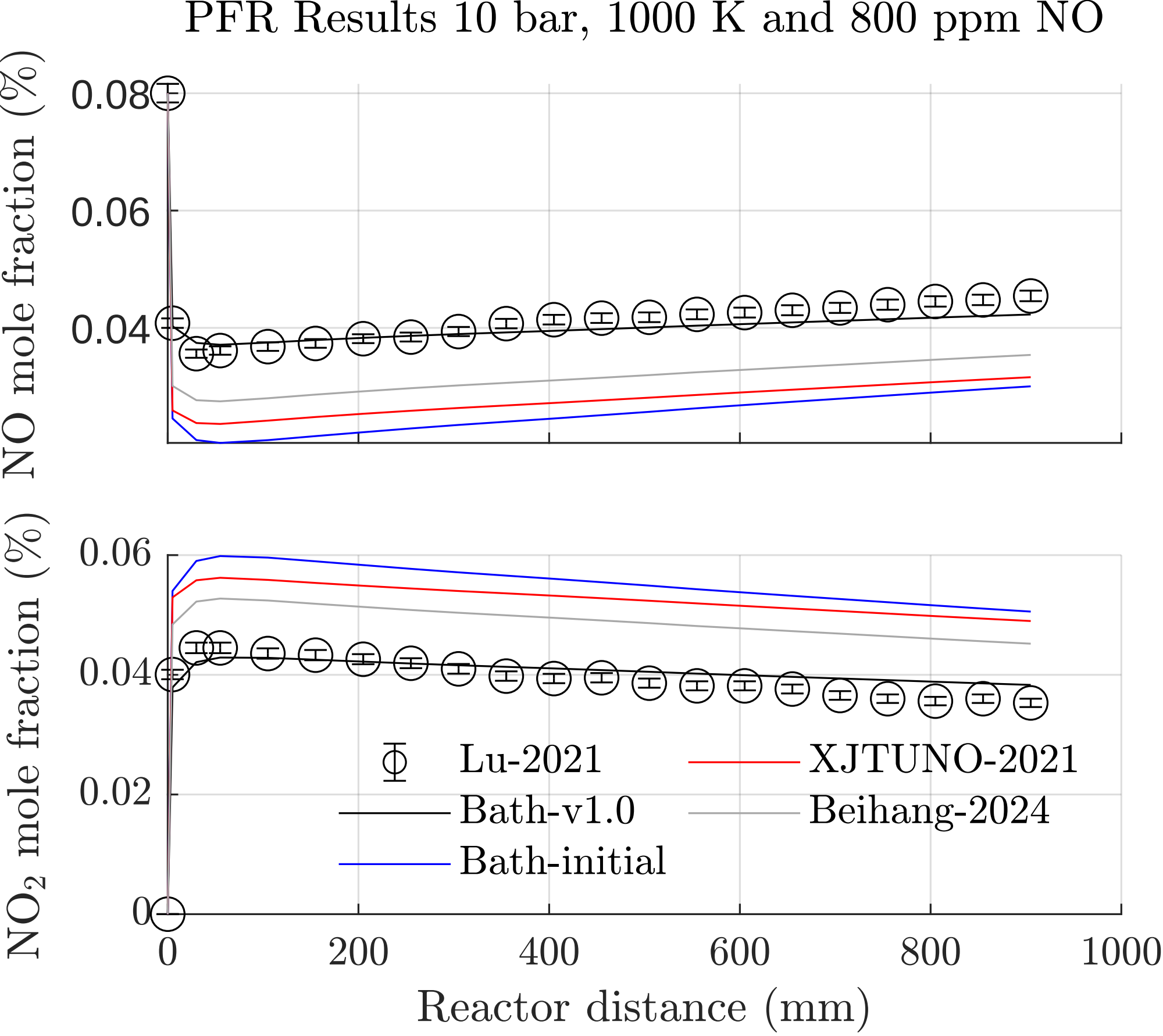

PFR Results 10 bar, 940 K and 0 ppm NO
NO mole fraction (%)
×10-12
6
4
2
0
NO2 mole fraction (%)
×10−10
1.5
1
0.5
0
Lu-2021
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
0
200
400
600
800
1000
Reactor distance (mm)

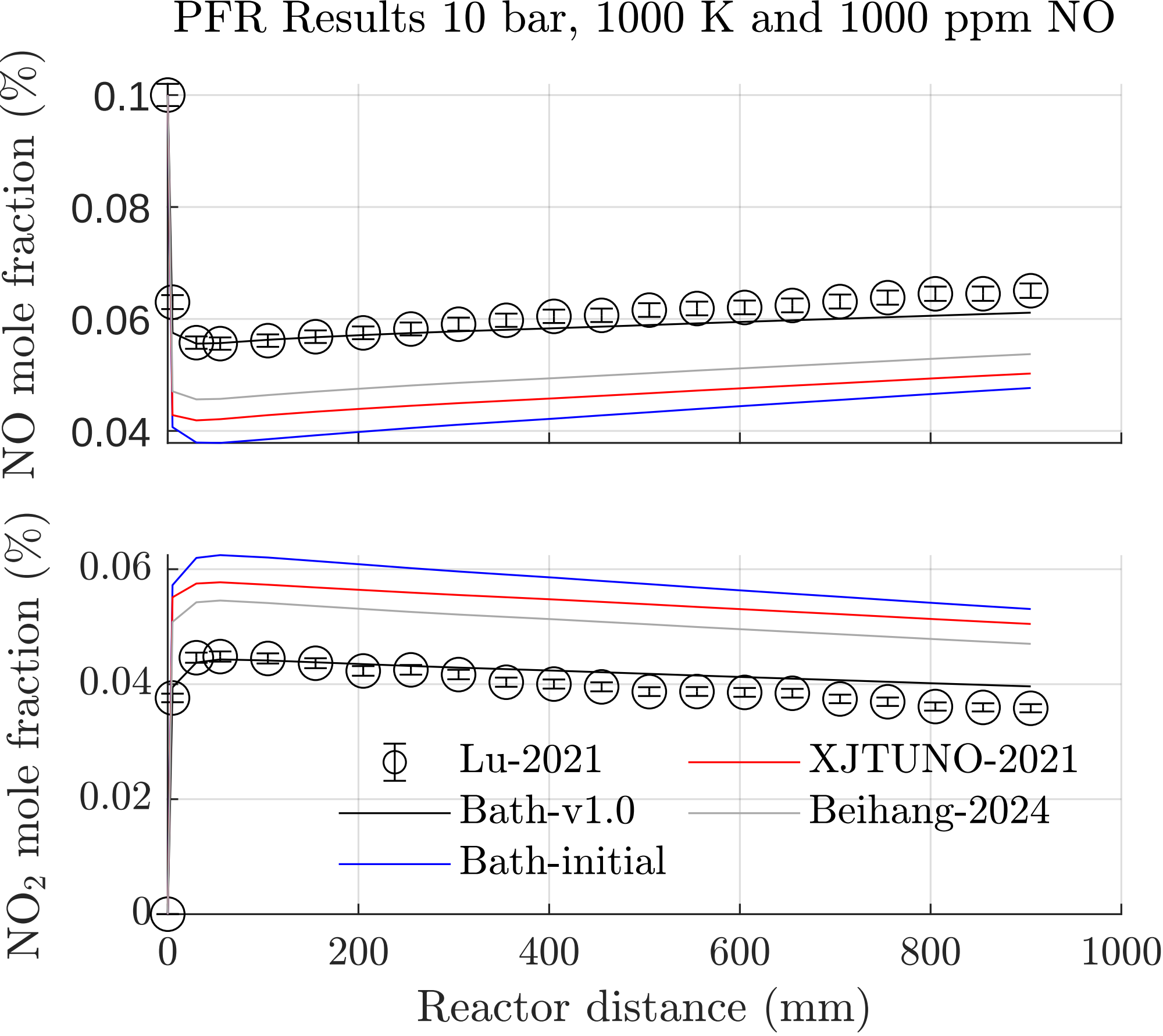

PFR Results 10 bar, 940 K and 60 ppm NO
NO mole fraction (%)
$\times 10^{-3}$
6
4
2
0
NO_2 mole fraction (%)
$\times 10^{-3}$
6
4
2
0
Lu-2021
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024
0
200
400
600
800
1000
Reactor distance (mm)


PFR Results 10 bar, 1010 K and 200 ppm NO
NO mole fraction (%)
0.02
0.01
0
NO2 mole fraction (%)
0.02
0.01
0
0
200
400
600
800
1000
Reactor distance (mm)
Lu-2021
XJTUNO-2021
Bath-v1.0
Beihang-2024
Bath-initial


PFR Results 10 bar, 1010 K and 400 ppm NO
NO mole fraction (%)
0.04
0.02
0
NO2 mole fraction (%)
0.04
0.02
0
0
200
400
600
800
1000
Reactor distance (mm)
Lu-2021
Bath-v1.0
Bath-initial
XJTUNO-2021
Beihang-2024


PFR Results 10 bar, 1000 K and 600 ppm NO
NO mole fraction (%)
0.06
0.04
0.02
0
NO2 mole fraction (%)
0.06
0.04
0.02
0
0
200
400
600
800
1000
Reactor distance (mm)
Lu-2021
XJTUNO-2021
Bath-v1.0
Beihang-2024
Bath-initial


PFR Results 10 bar, 1000 K and 800 ppm NO
NO mole fraction (%)
0.08
0.06
0.04
NO2 mole fraction (%)
0.06
0.04
0.02
0
0
200
400
600
800
1000
Reactor distance (mm)
Lu-2021
XJTUNO-2021
Bath-v1.0
Beihang-2024
Bath-initial


PFR Results 10 bar, 1000 K and 1000 ppm NO
NO mole fraction (%)
0.1
0.08
0.06
0.04
NO2 mole fraction (%)
0.06
0.04
0.02
0
0
200
400
600
800
1000
Reactor distance (mm)
Lu-2021
XJTUNO-2021
Bath-v1.0
Beihang-2024
Bath-initial