FIGURE A.1: Properties of different modeling approaches for determination of parameters in Langmuir isotherm (experiments performed three times), a) *mE* , b) *MARE*.
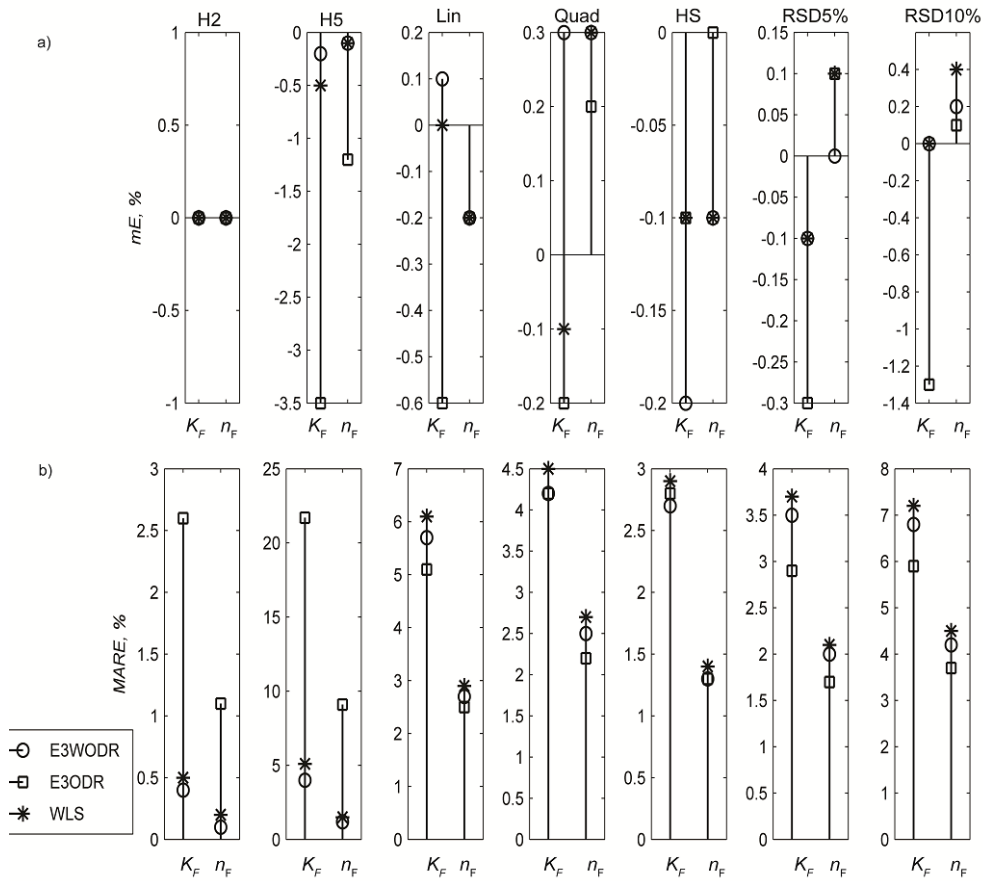
FIGURE A.2: Properties of different modeling approaches for determination of parameters in Freundlich isotherm (experiments performed three times), a) *mE* , b*) MARE*
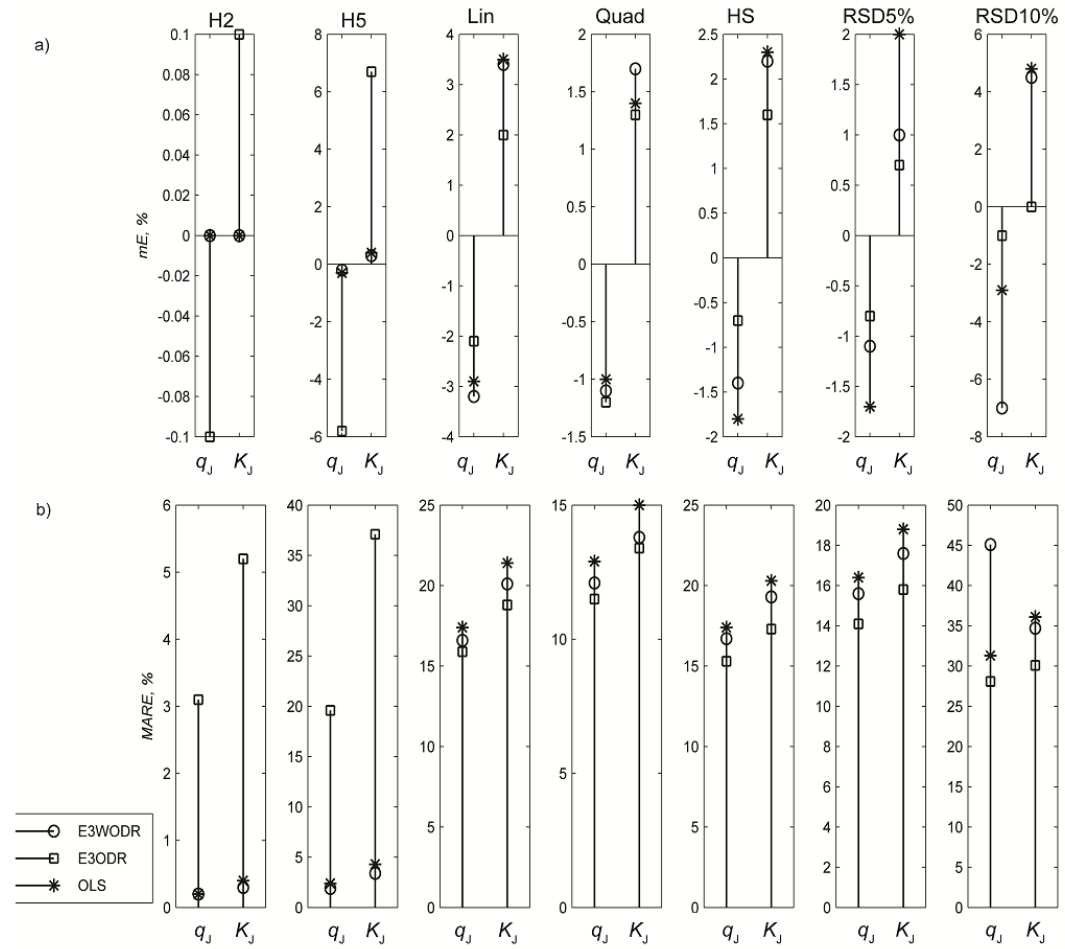
FIGURE A.3: Properties of different modeling approaches for determination of parameters in Jovanovic isotherm (experiments performed three times), a) *mE* , b*) MARE*
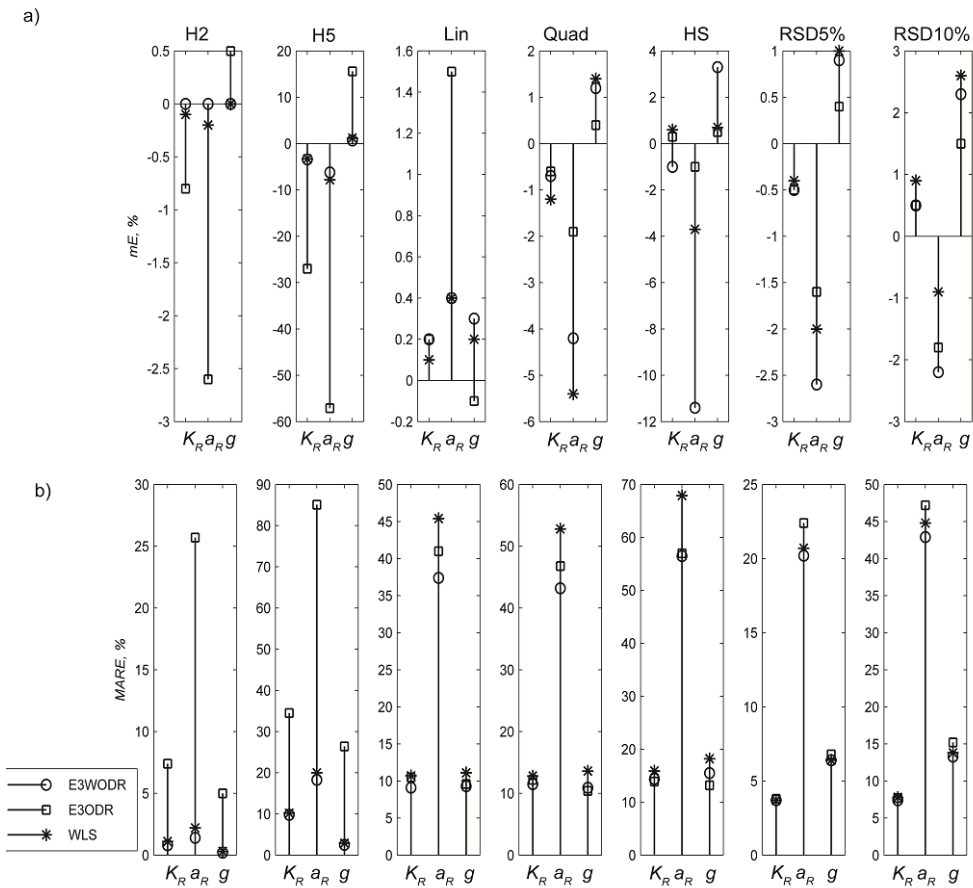
FIGURE A.4: Properties of different modeling approaches for determination of parameters in Redlich-Peterson isotherm (experiments performed three times), a) *mE* , b*) MARE*
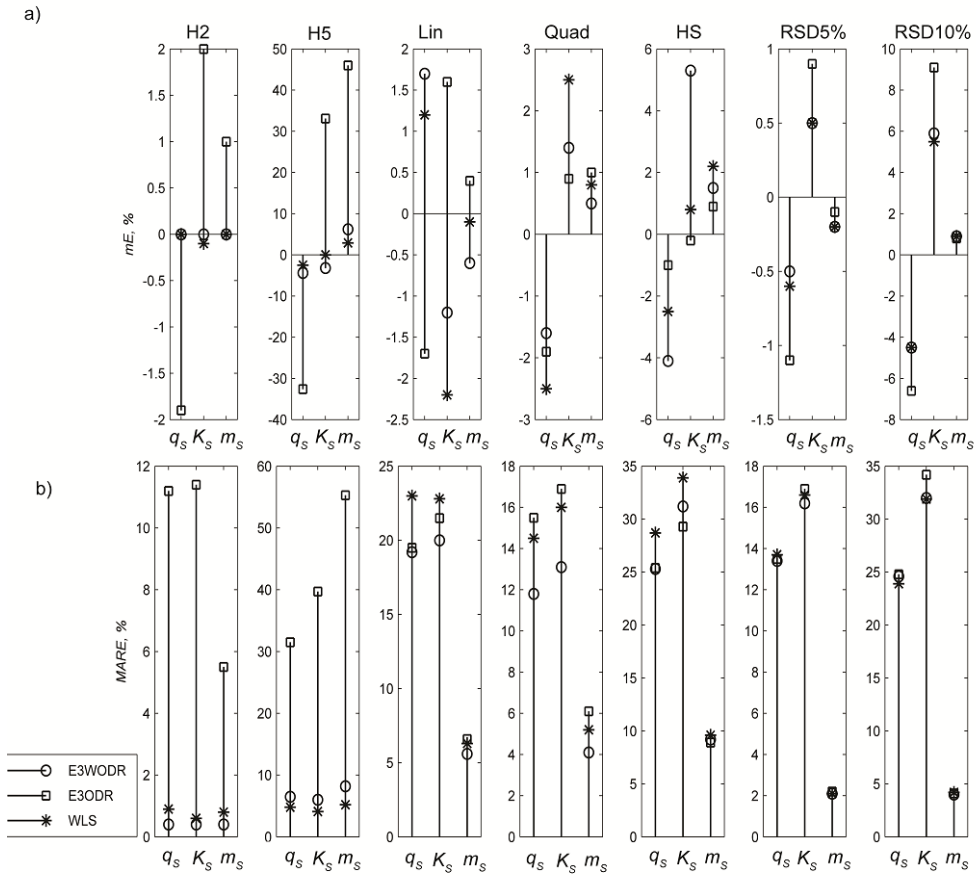
FIGURE A.5: Properties of different modeling approaches for determination of parameters in Sips isotherm (experiments performed three times), a) *mE* , b*) MARE*