

Intraparticle Model for Non-Uniform Active Phase Distribution Catalysts in a Batch Reactor

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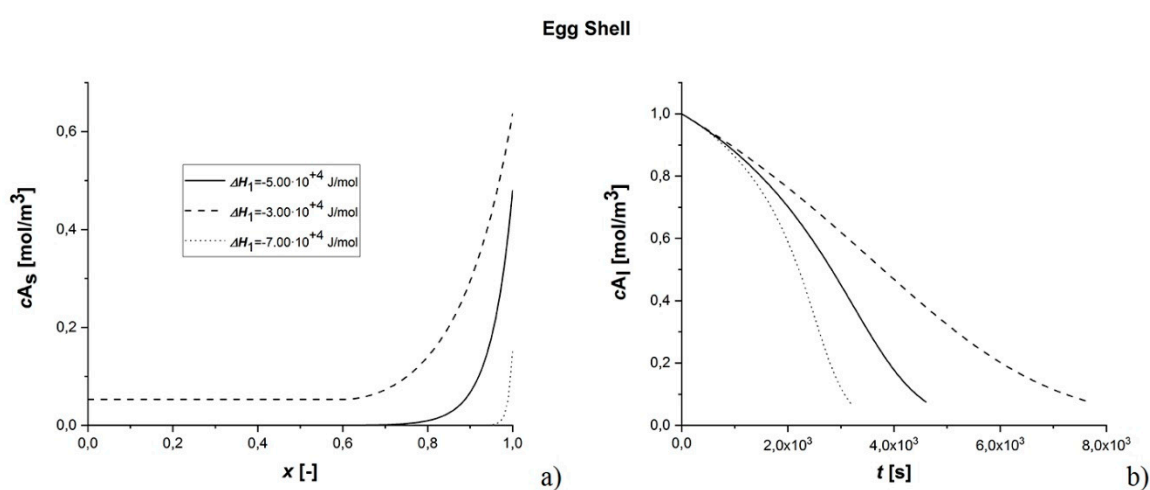


Figure S1. (a) Intraparticle profile of c_{As} at time $t = 2.9 \cdot 10^3$ s. (b) Bulk profile of c_{Al} over time.

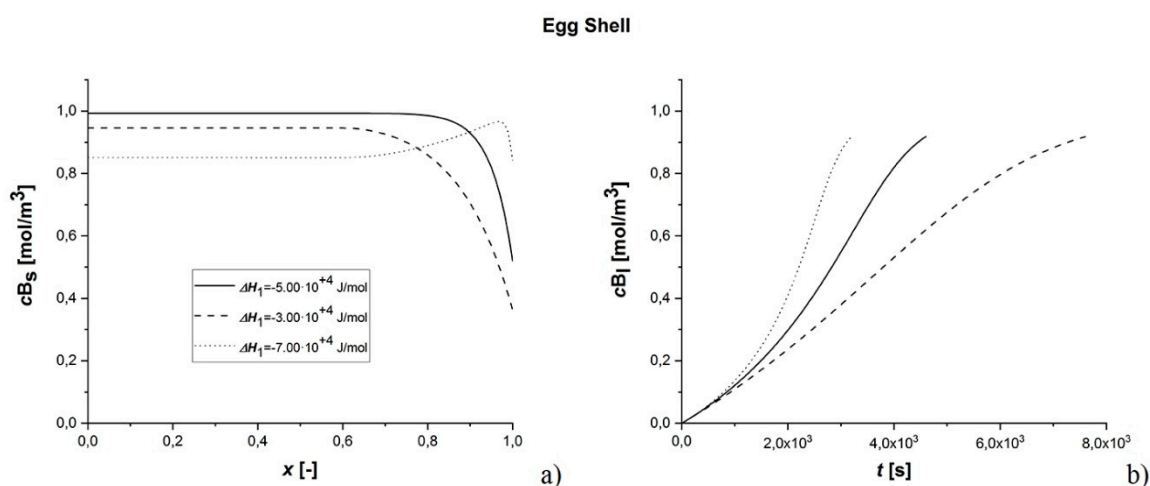


Figure S2. (a) Intraparticle profile of c_{Bs} at time $t = 2.9 \cdot 10^3$ s. (b) Bulk profile of c_{Bl} over time.

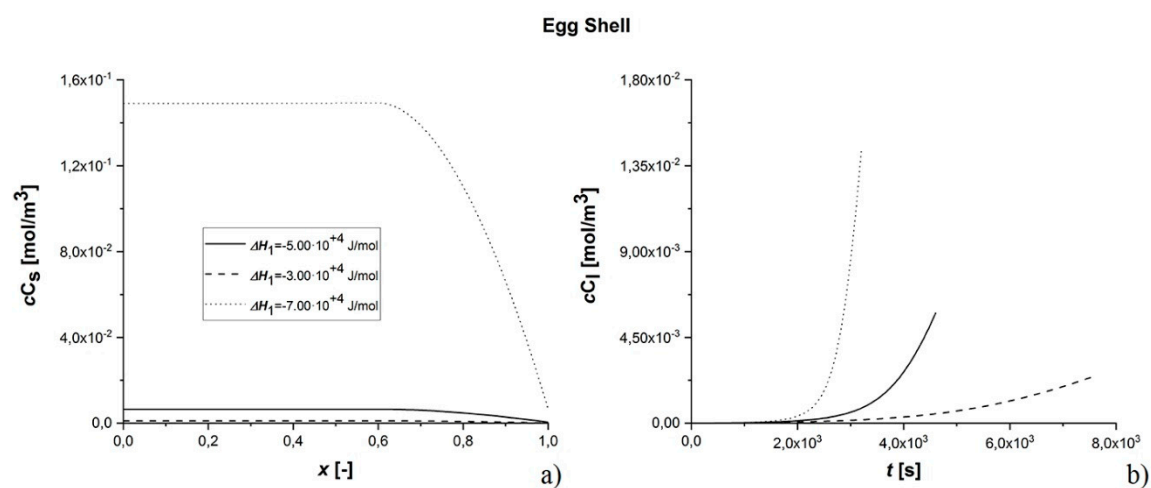


Figure S3. (a) Intraparticle profile of c_{Cs} at time $t = 2.9 \cdot 10^3$ s. (b) Bulk profile of c_{Ci} over time.

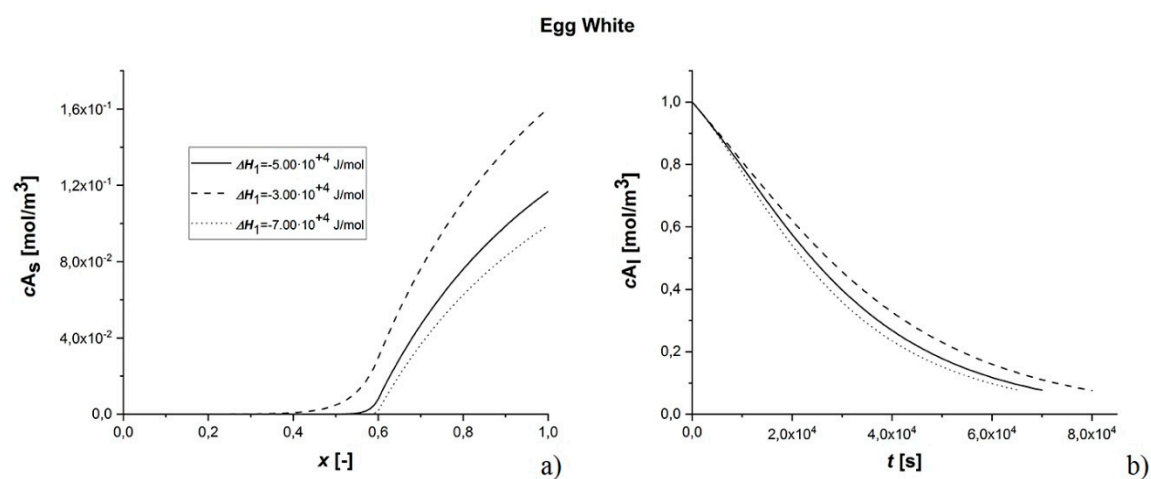


Figure S4. (a) Intraparticle profile of c_{As} at time $t = 6.0 \cdot 10^4$ s. (b) Bulk profile of c_{Ai} over time.

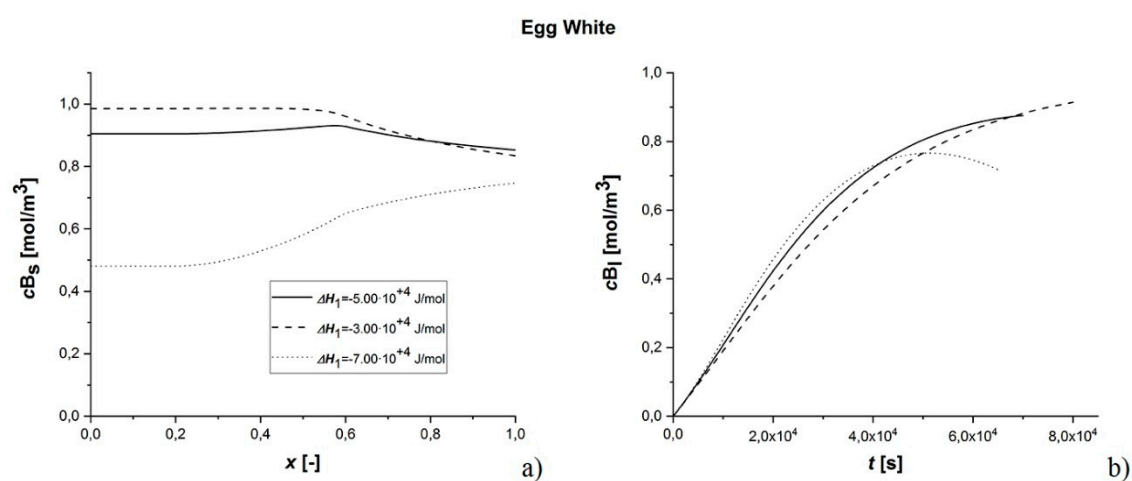


Figure S5. (a) Intraparticle profile of c_{Bs} at time $t = 6.0 \cdot 10^4$ s. (b) Bulk profile of c_{Bi} over time.

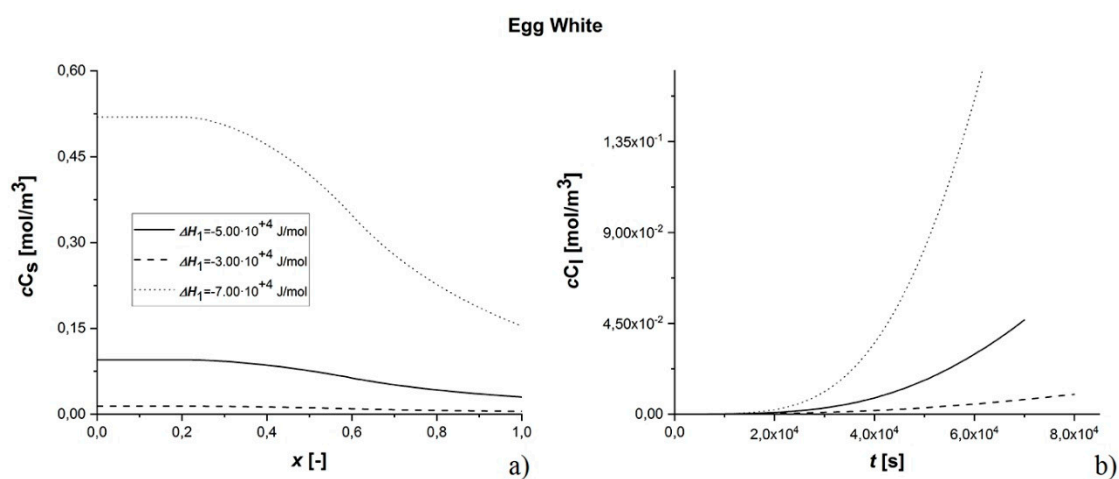


Figure S6. (a) Intraparticle profile of c_{Cs} at time $t = 6.0 \cdot 10^4$ s. (b) Bulk profile of c_{Ci} over time.

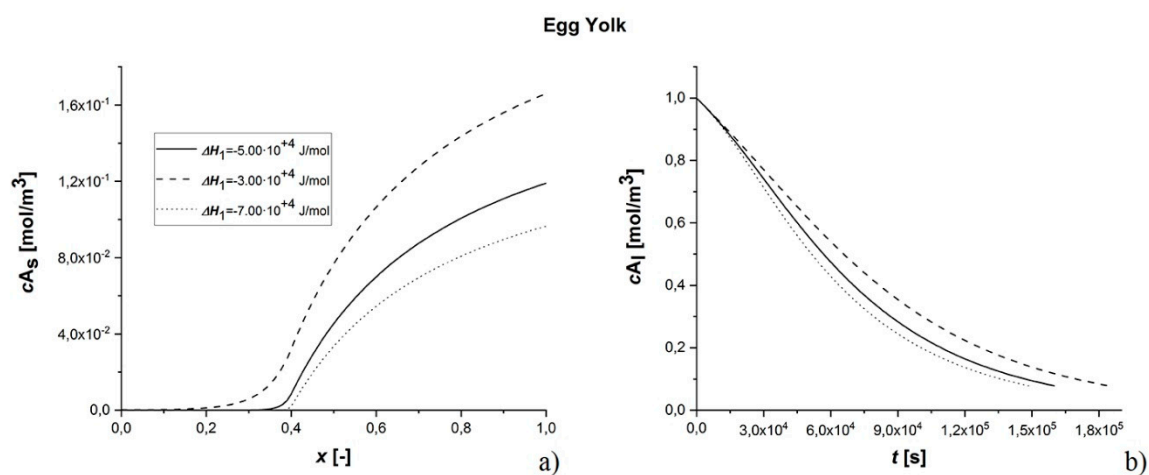


Figure S7. (a) Intraparticle profile of c_{As} at time $t = 1.38 \cdot 10^5$ s. (b) Bulk profile of c_{Ai} over time.

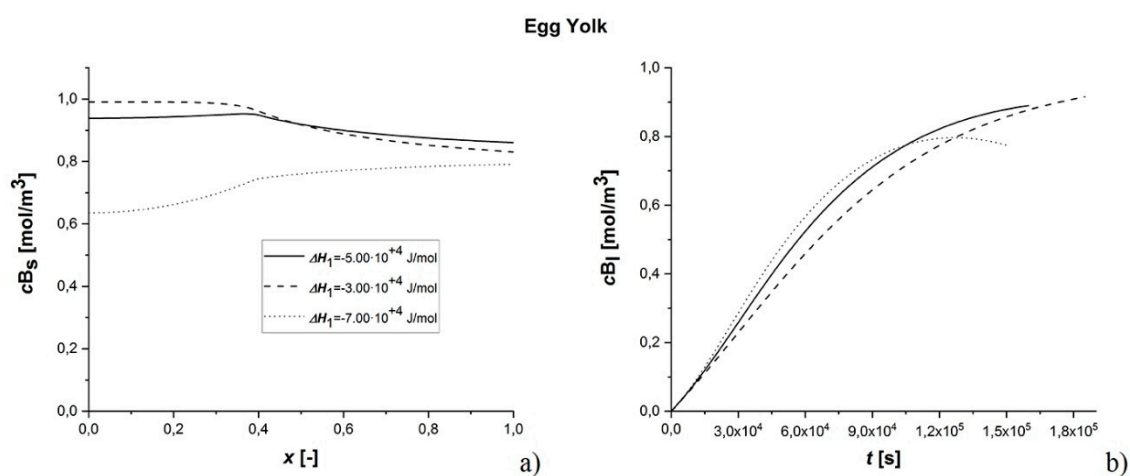


Figure S8. (a) Intraparticle profile of c_{Bs} at time $t = 1.38 \cdot 10^5$ s. (b) Bulk profile of c_{Bi} over time.

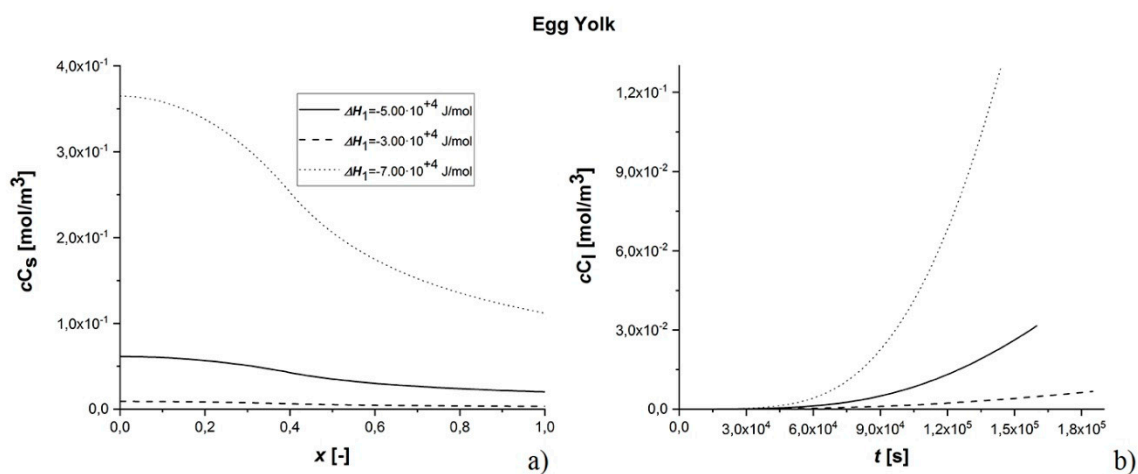


Figure S9. (a) Intraparticle profile of c_{Cs} at time $t = 1.38 \cdot 10^5$ s. (b) Bulk profile of c_{Cl} over time.

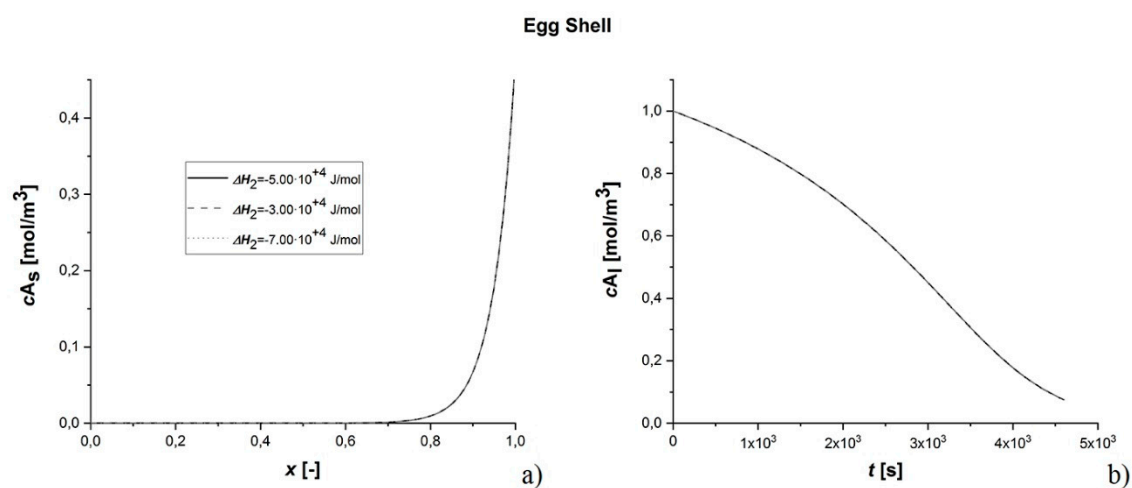


Figure S10. (a) Intraparticle profile of c_{As} at time $t = 2.9 \cdot 10^3$ s. (b) Bulk profile of c_{Al} over time.

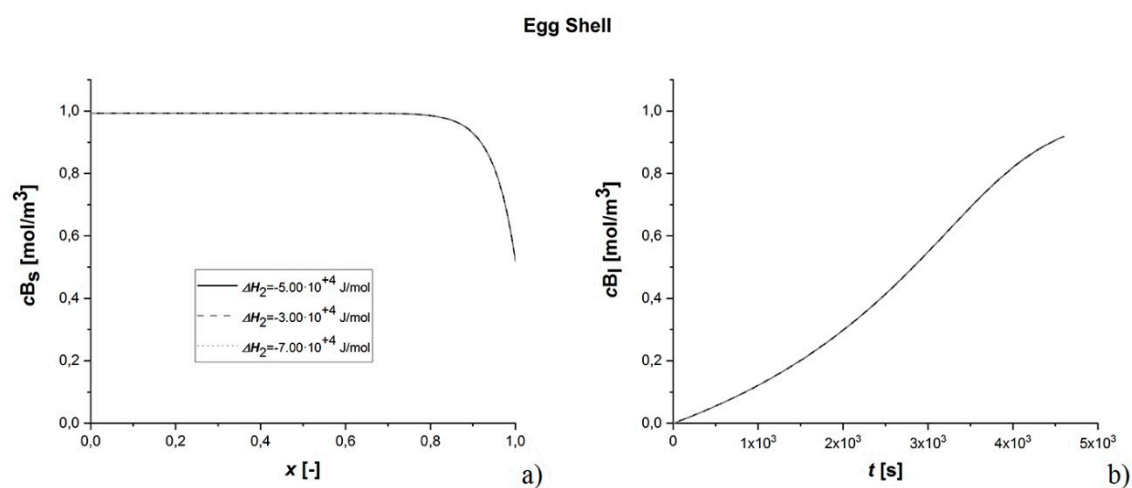


Figure S11. (a) Intraparticle profile of c_{Bs} at time $t = 2.9 \cdot 10^3$ s. (b) Bulk profile of c_{Bl} over time.

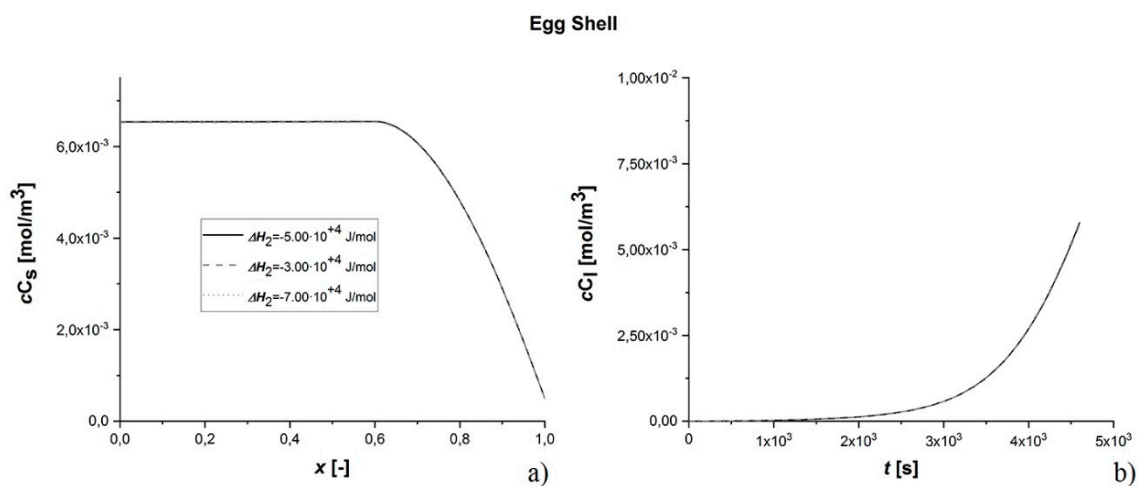


Figure S12. (a) Intraparticle profile of c_{Cs} at time $t = 2.9 \cdot 10^3$ s. (b) Bulk profile of c_{Ci} over time.

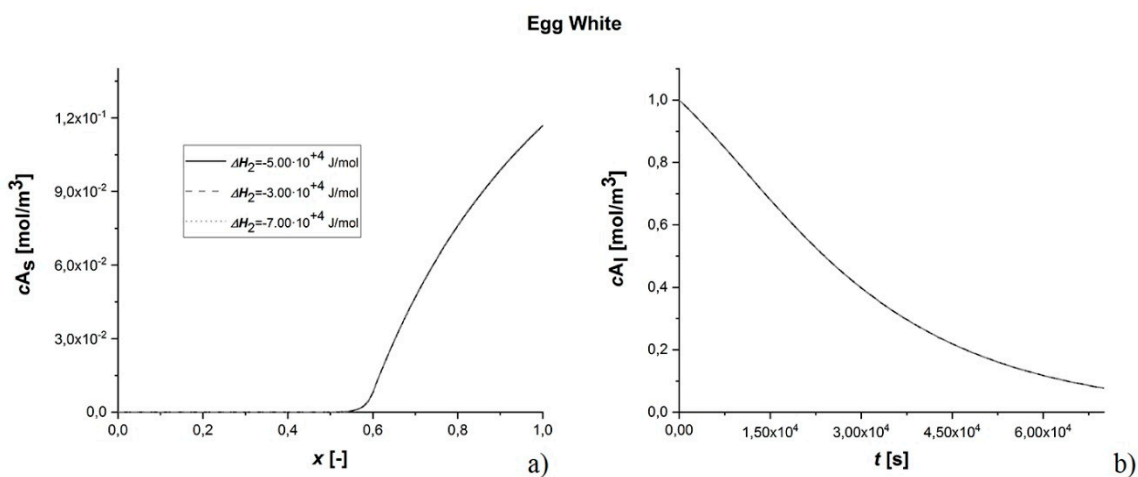


Figure S13. (a) Intraparticle profile of c_{As} at time $t = 6.0 \cdot 10^4$ s. (b) Bulk profile of c_{Ai} over time.

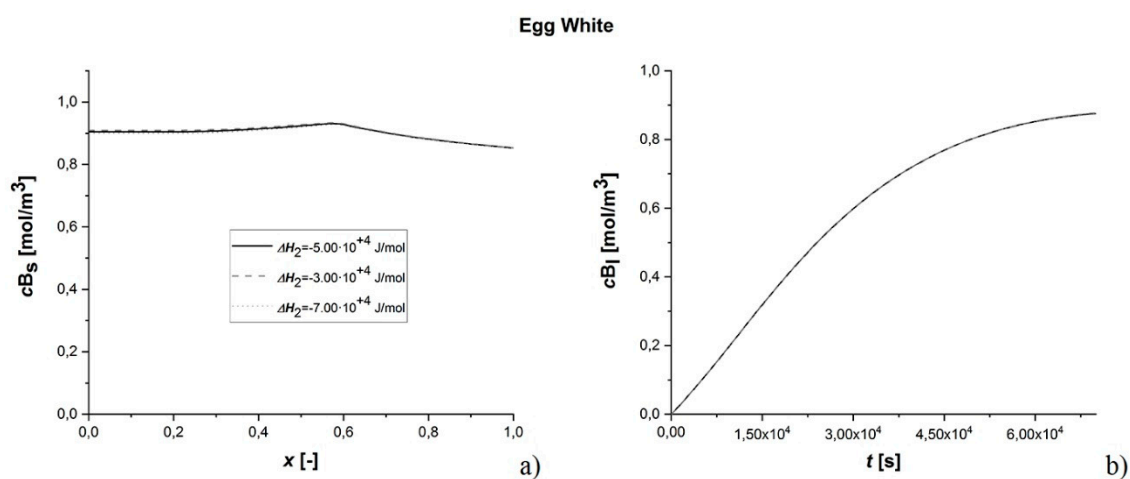


Figure S14. (a) Intraparticle profile of c_{Bs} at time $t = 6.0 \cdot 10^4$ s. (b) Bulk profile of c_{Bi} over time.

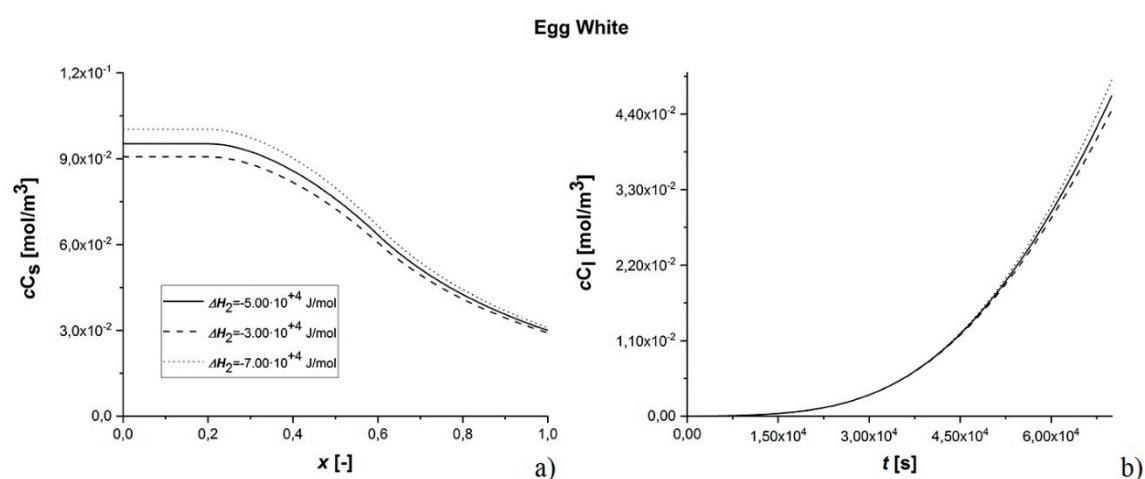


Figure S15. (a) Intraparticle profile of c_{Cs} at time $t = 6.0 \cdot 10^4$ s. (b) Bulk profile of c_{Cl} over time.

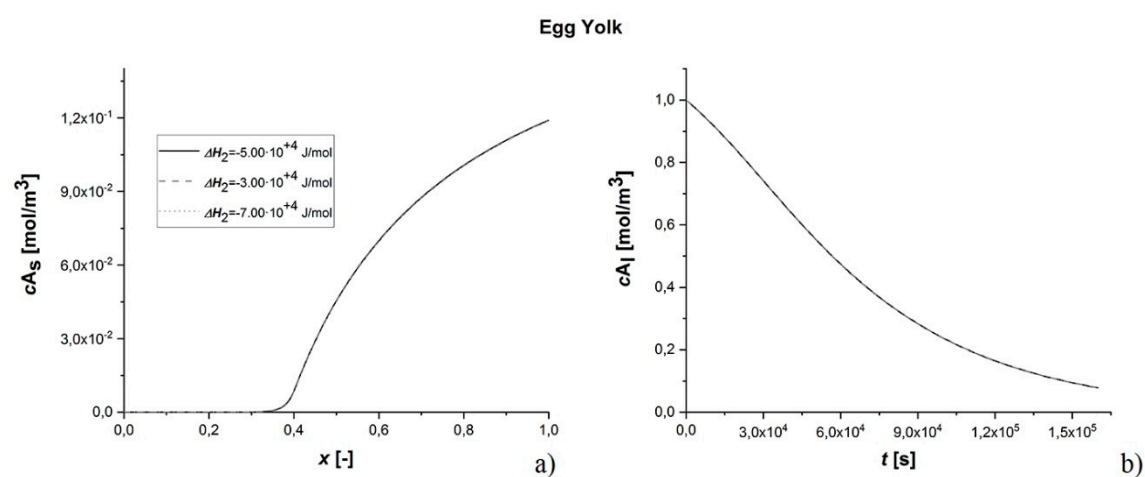


Figure S16. (a) Intraparticle profile of c_{As} at time $t = 1.38 \cdot 10^5$ s. (b) Bulk profile of c_{Al} over time.

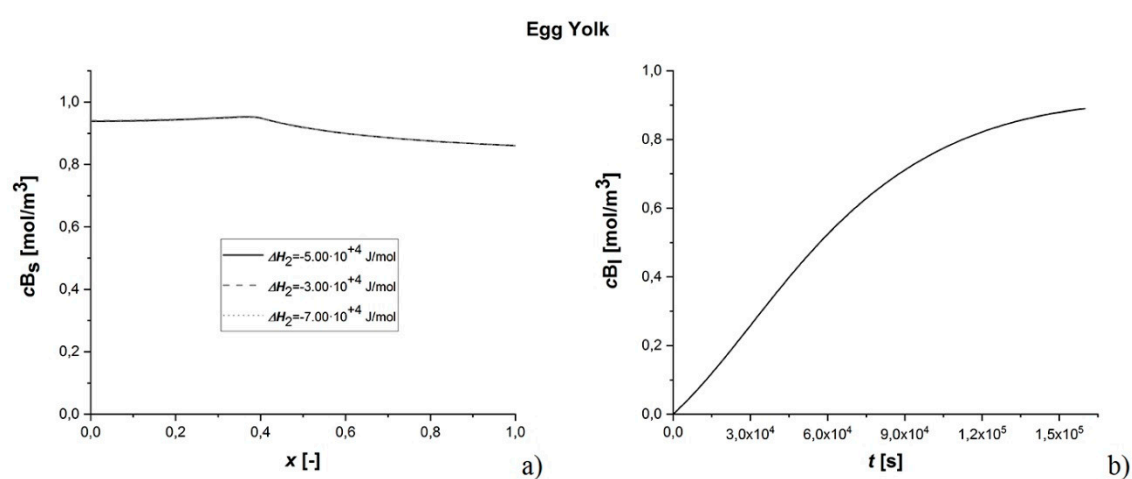


Figure S17. (a) Intraparticle profile of c_{Bs} at time $t = 1.38 \cdot 10^5$ s. (b) Bulk profile of c_{Bl} over time.

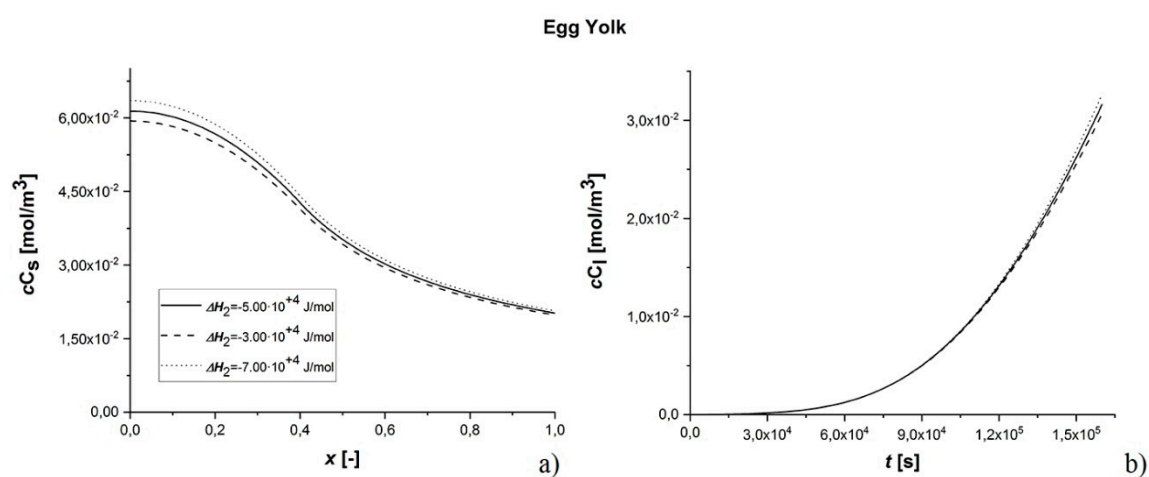


Figure S18. (a) Intraparticle profile of c_{Cs} at time $t = 1.38 \cdot 10^5$ s. (b) Bulk profile of c_{Cl} over time.

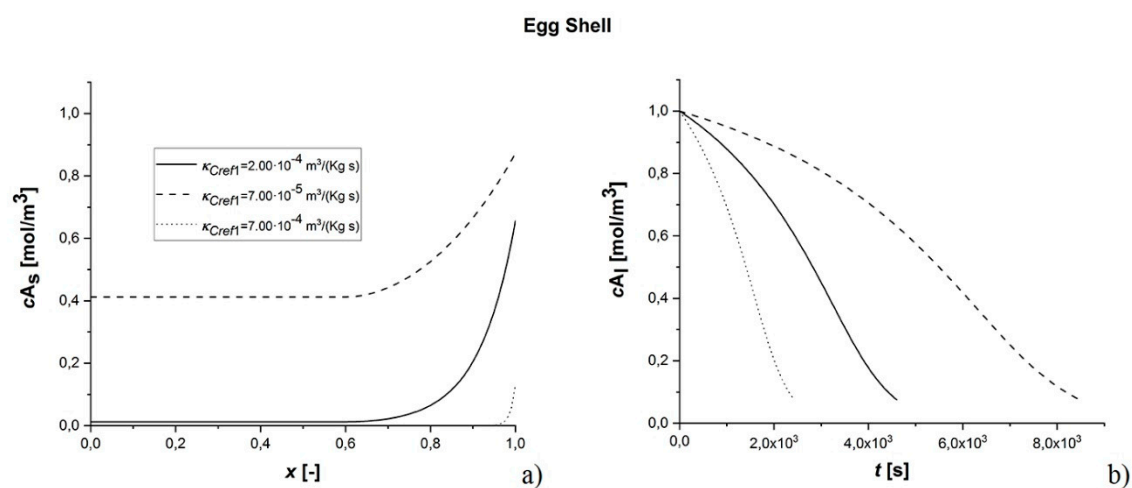


Figure S19. (a) Intraparticle profile of c_{As} at time $t = 2.2 \cdot 10^3$ s. (b) Bulk profile of c_{Al} over time.

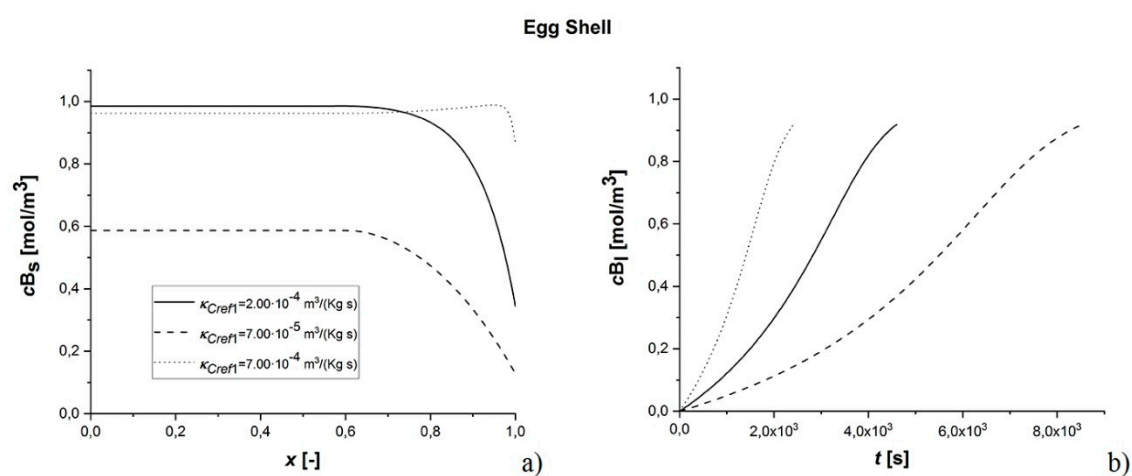


Figure S20. (a) Intraparticle profile of c_{Bs} at time $t = 2.2 \cdot 10^3$ s. (b) Bulk profile of c_{Bl} over time.

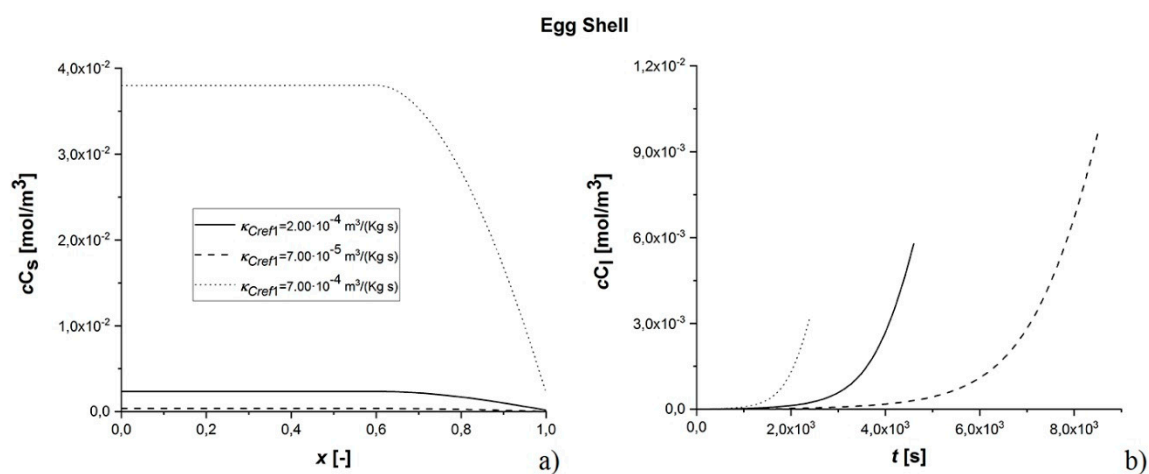


Figure S21. (a) Intraparticle profile of c_{Cs} at time $t = 2.2 \cdot 10^3$ s. (b) Bulk profile of c_{Ci} over time.

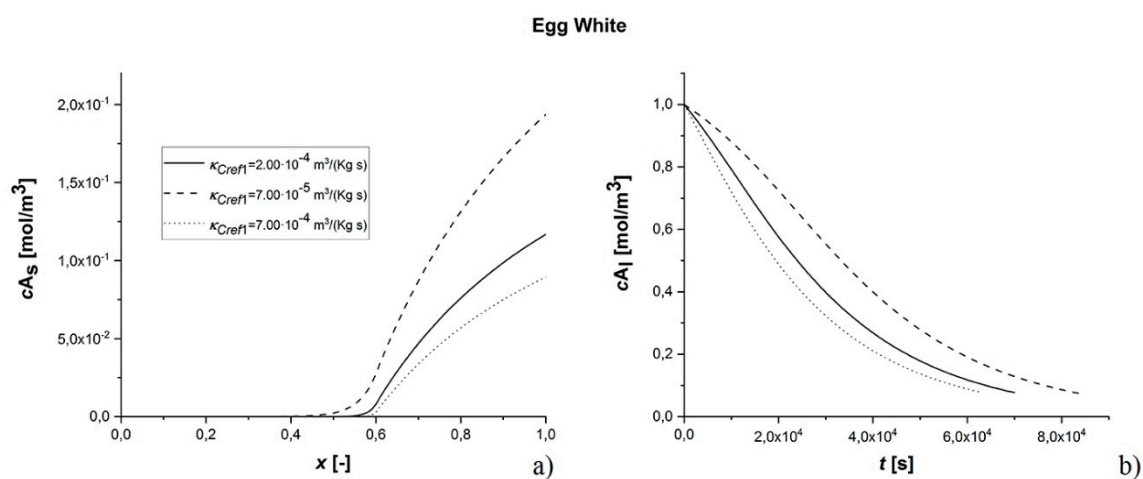


Figure S22. (a) Intraparticle profile of c_{As} at time $t = 6.0 \cdot 10^4$ s. (b) Bulk profile of c_{Ai} over time.

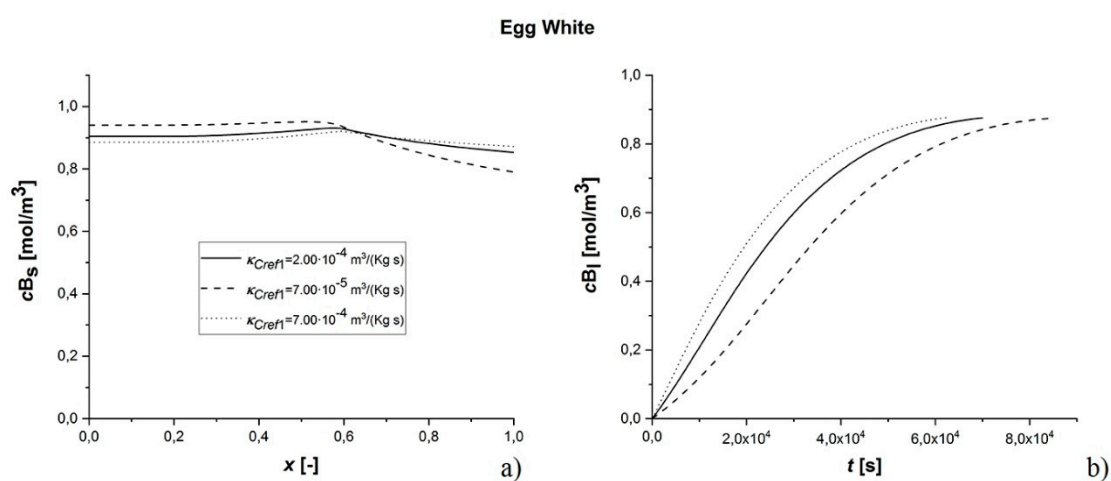


Figure S23. (a) Intraparticle profile of c_{Bs} at time $t = 6.0 \cdot 10^4$ s. (b) Bulk profile of c_{Bi} over time.

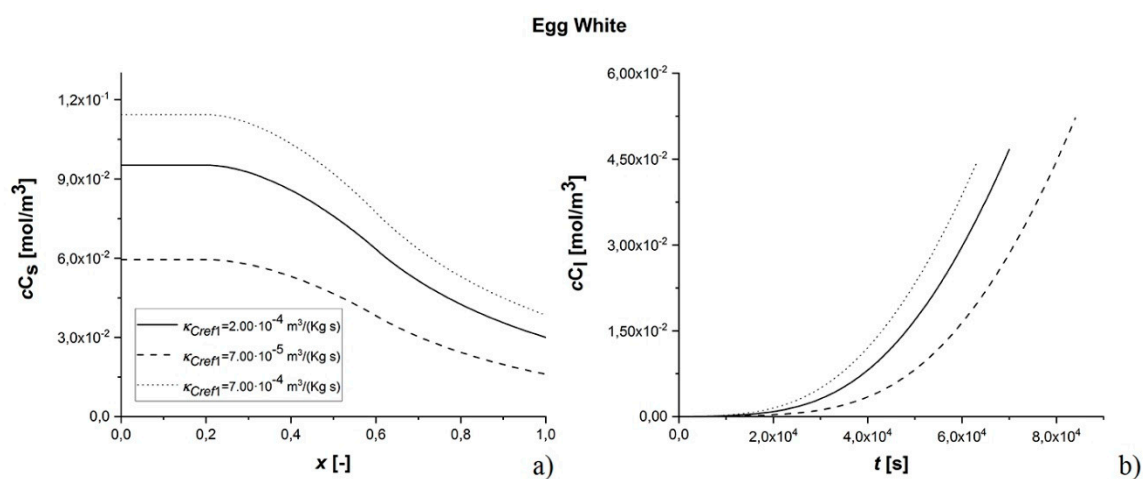


Figure S24. (a) Intraparticle profile of c_{Cs} at time $t = 6.0 \cdot 10^4$ s. (b) Bulk profile of c_{Cl} over time.

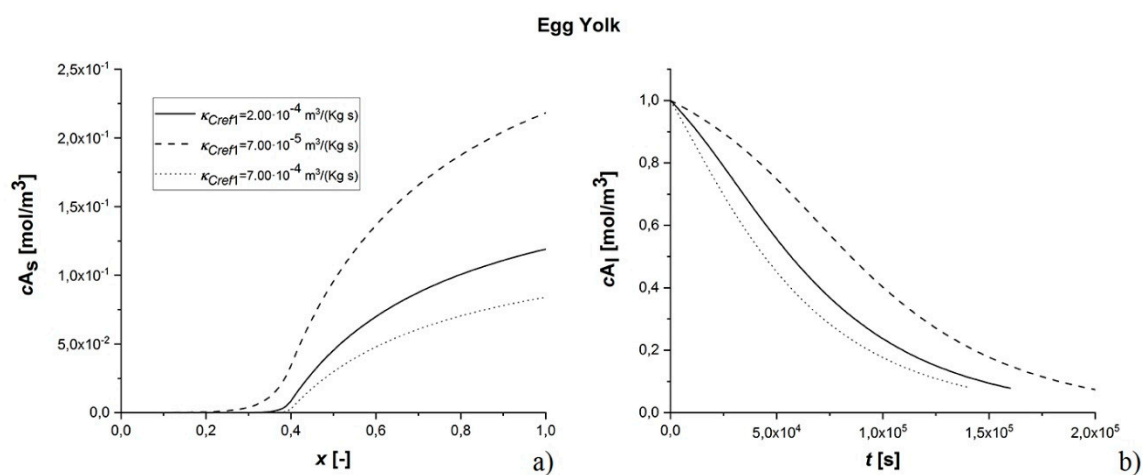


Figure S25. (a) Intraparticle profile of c_{As} at time $t = 1.38 \cdot 10^5$ s. (b) Bulk profile of c_{Al} over time.

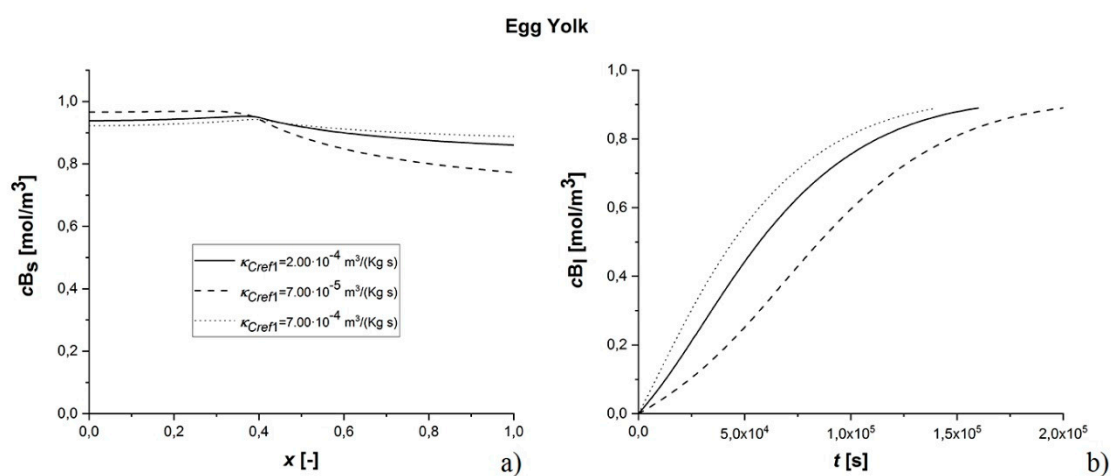


Figure S26. (a) Intraparticle profile of c_{Bs} at time $t = 1.38 \cdot 10^5$ s. (b) Bulk profile of c_{Bl} over time.

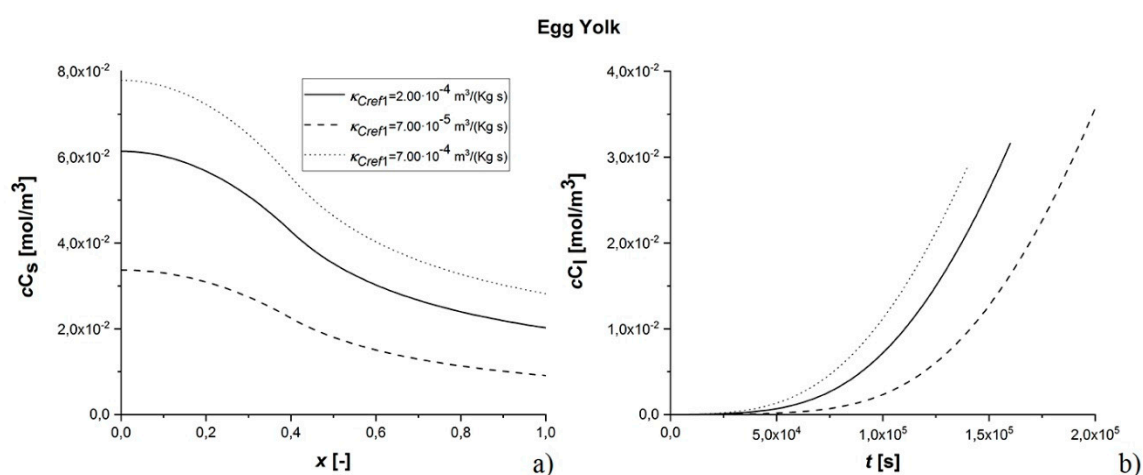


Figure S27. (a) Intraparticle profile of c_{Cs} at time $t = 1.38 \cdot 10^5$ s. (b) Bulk profile of c_{Cl} over time.

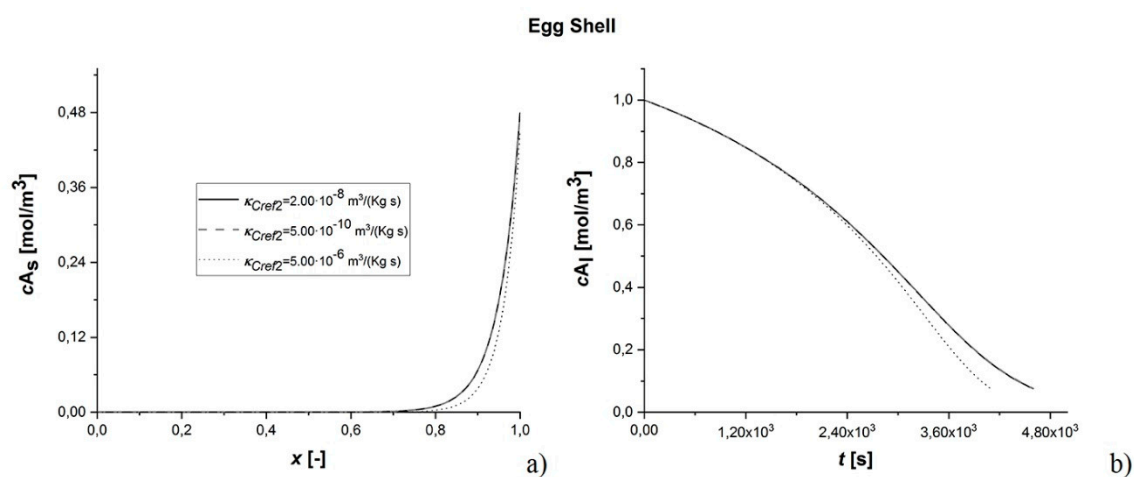


Figure S28. (a) Intraparticle profile of c_{As} at time $t = 2.9 \cdot 10^3$ s. (b) Bulk profile of c_{Al} over time.

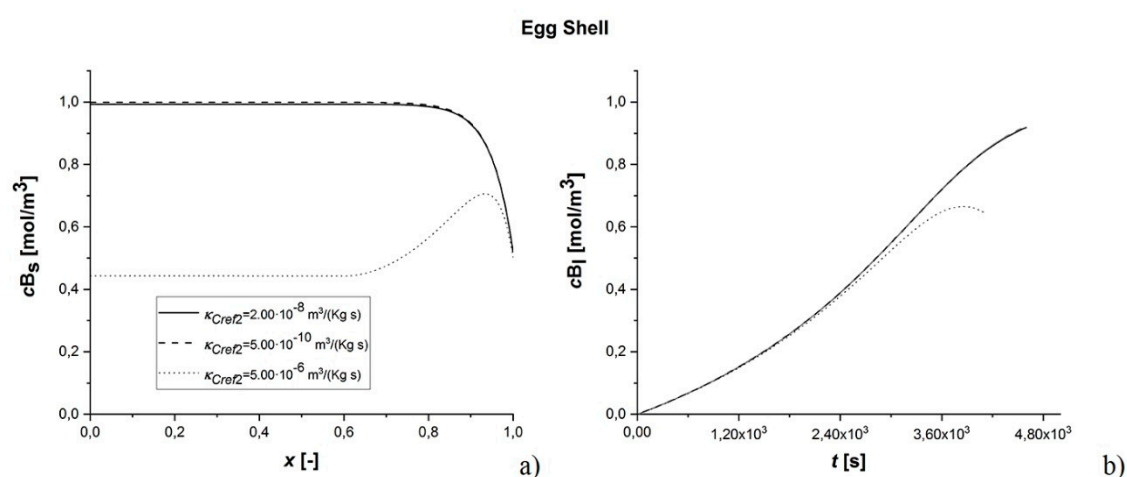


Figure S29. (a) Intraparticle profile of c_{Bs} at time $t = 2.9 \cdot 10^3$ s. (b) Bulk profile of c_{Bl} over time.

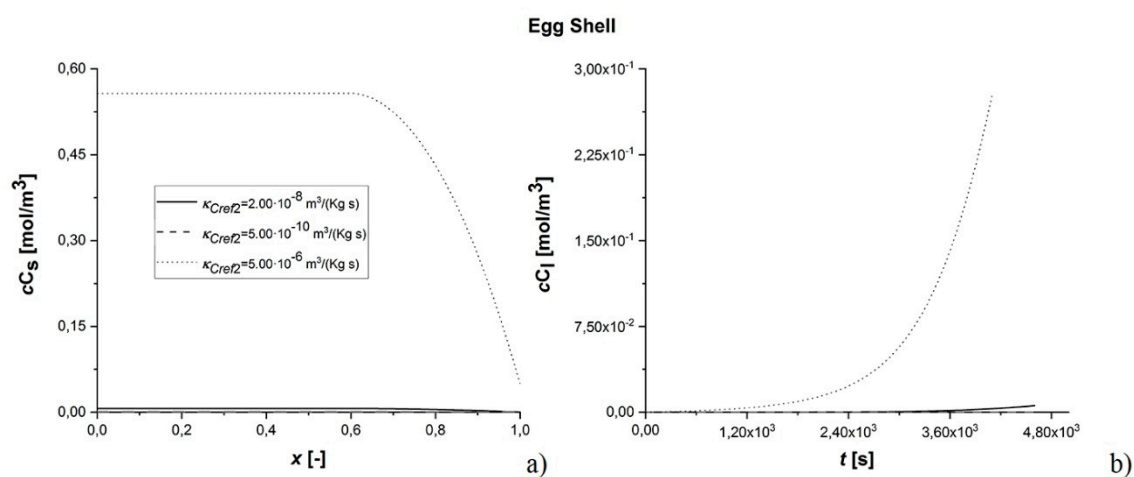


Figure S30. (a) Intraparticle profile of c_{Cs} at time $t = 2.9 \cdot 10^3$ s. (b) Bulk profile of c_{Ci} over time.

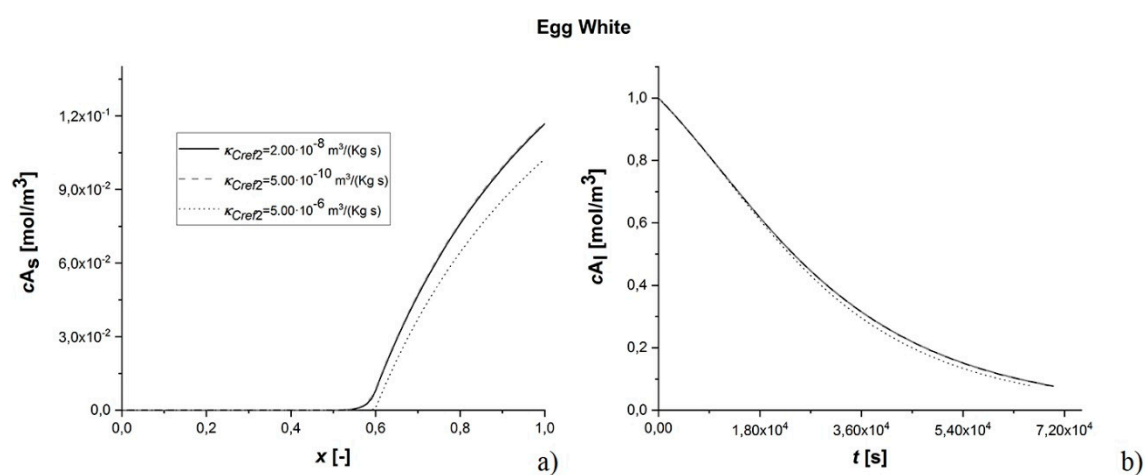


Figure S31. (a) Intraparticle profile of c_{As} at time $t = 6.0 \cdot 10^4$ s. (b) Bulk profile of c_{Ai} over time.

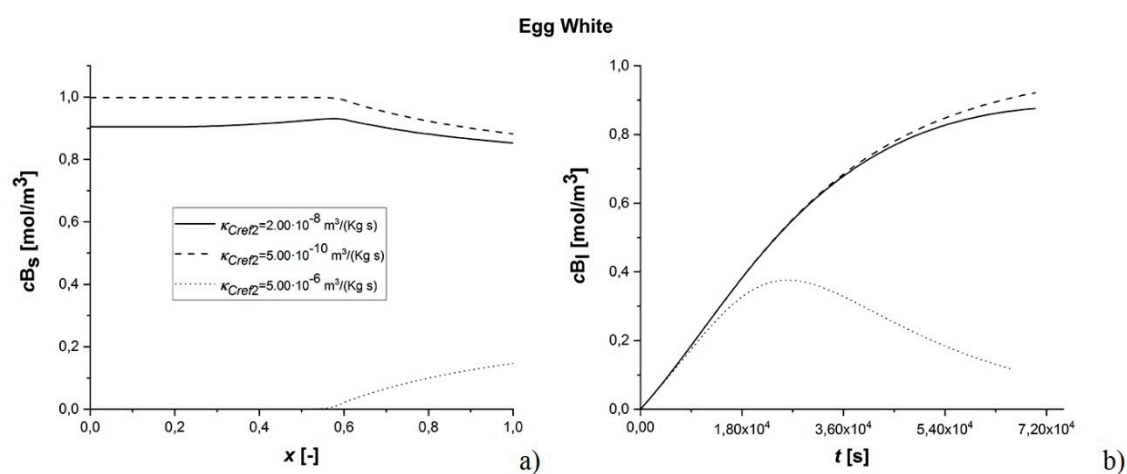


Figure S32. (a) Intraparticle profile of c_{Bs} at time $t = 6.0 \cdot 10^4$ s. (b) Bulk profile of c_{Bi} over time.

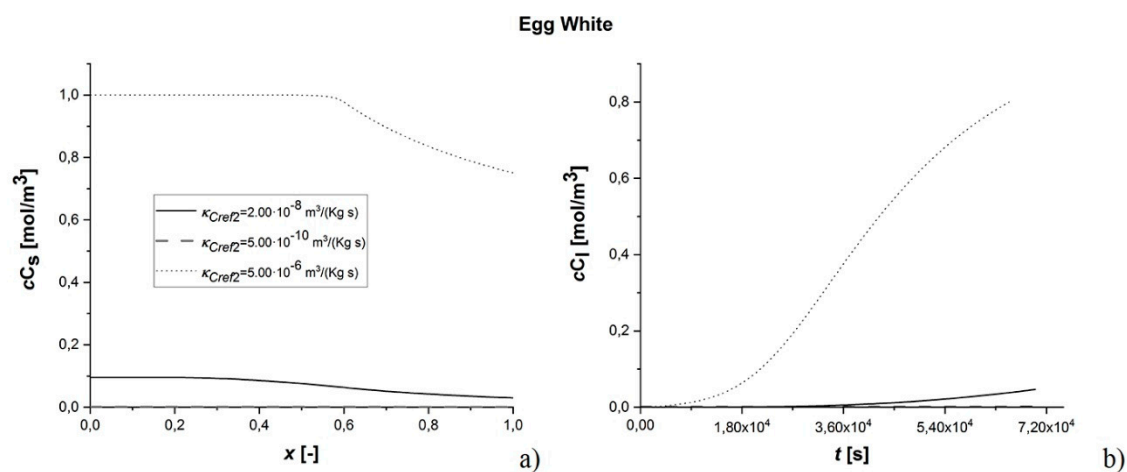


Figure S33. (a) Intraparticle profile of c_{Cs} at time $t = 6.0 \cdot 10^4$ s. (b) Bulk profile of c_{Cl} over time.

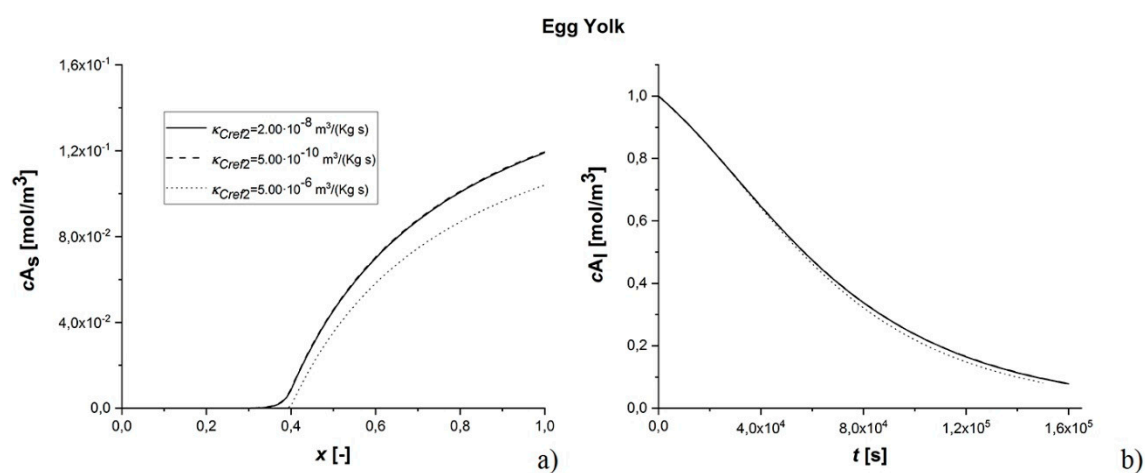


Figure S34. (a) Intraparticle profile of c_{As} at time $t = 1.38 \cdot 10^5$ s. (b) Bulk profile of c_{Al} over time.

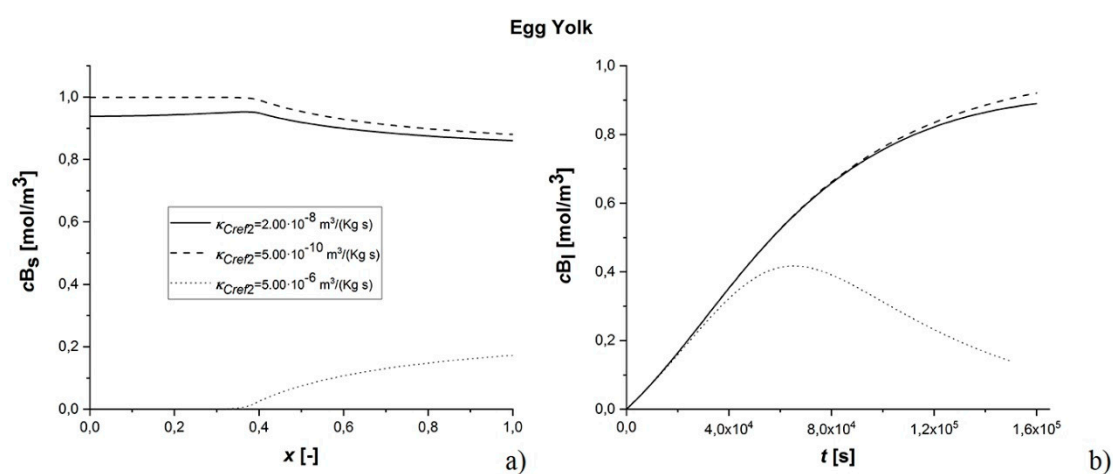


Figure S35. (a) Intraparticle profile of c_{Bs} at time $t = 1.38 \cdot 10^5$ s. (b) Bulk profile of c_{Bl} over time.

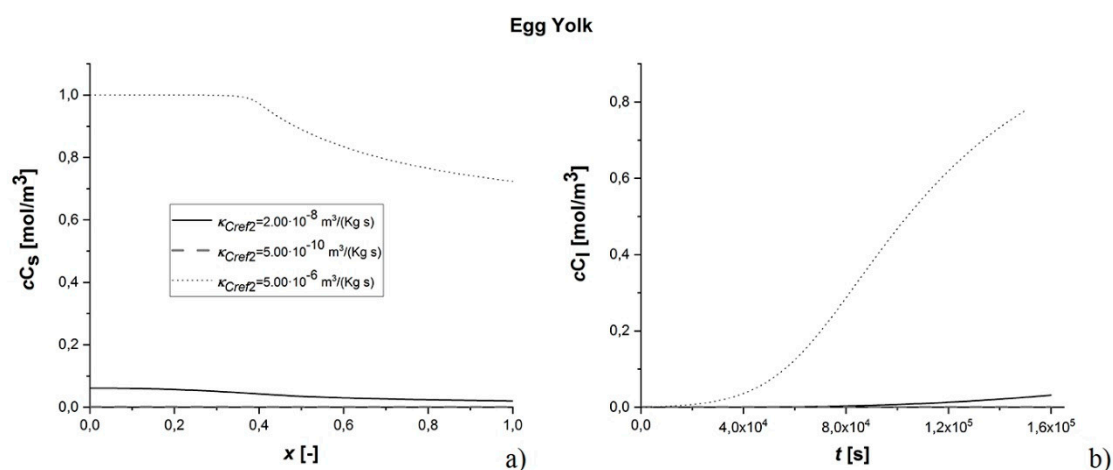


Figure S36. (a) Intraparticle profile of c_{Cs} at time $t = 1.38 \cdot 10^5$ s. (b) Bulk profile of c_{Cl} over time.

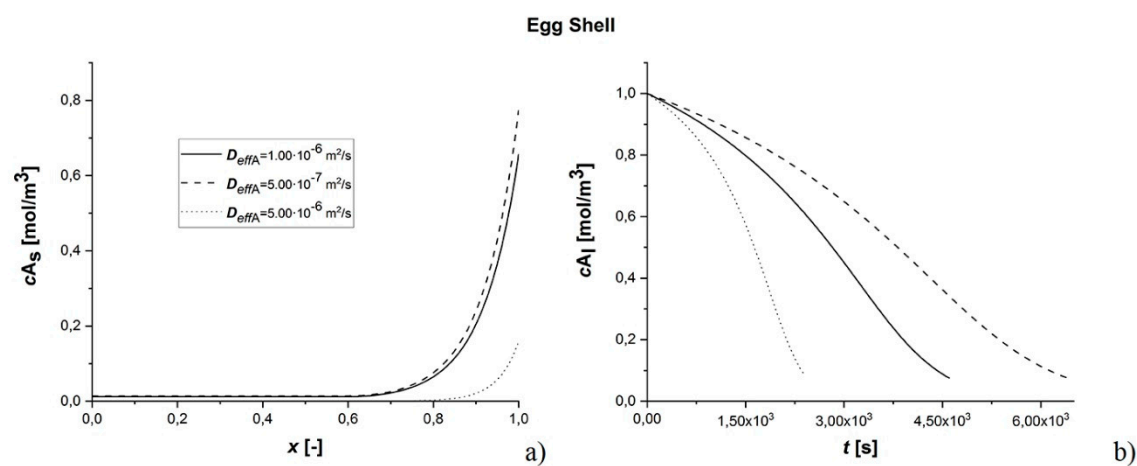


Figure S37. (a) Intraparticle profile of c_{As} at time $t = 2.2 \cdot 10^3$ s. (b) Bulk profile of c_{Al} over time.

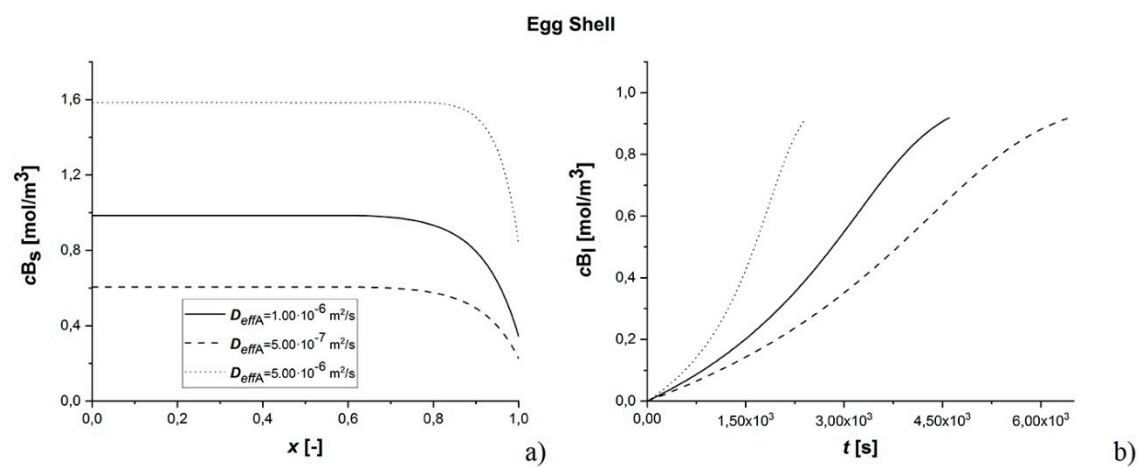


Figure S38. (a) Intraparticle profile of c_{Bs} at time $t = 2.2 \cdot 10^3$ s. (b) Bulk profile of c_{Bl} over time.

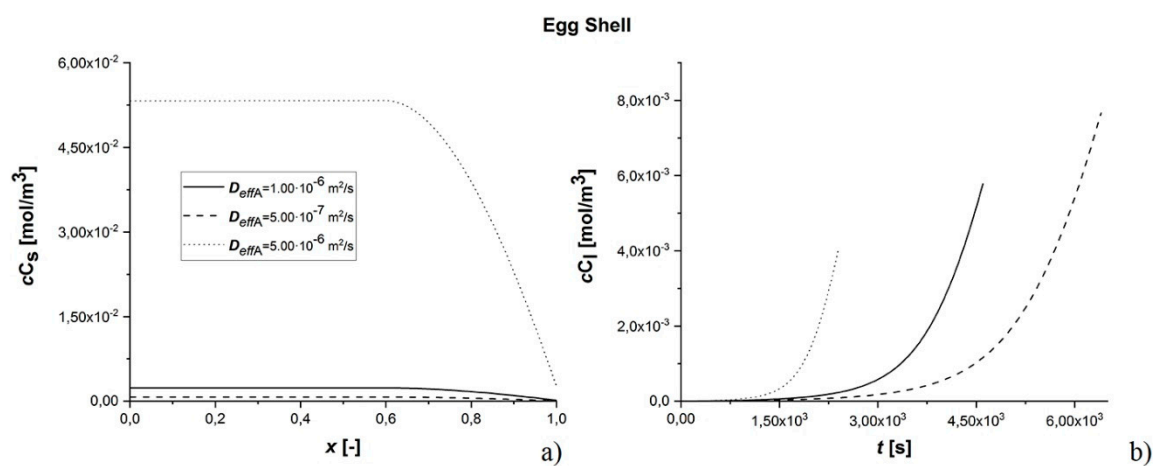


Figure S39. (a) Intraparticle profile of c_{Cs} at time $t = 2.2 \cdot 10^3$ s. (b) Bulk profile of c_{Cl} over time.

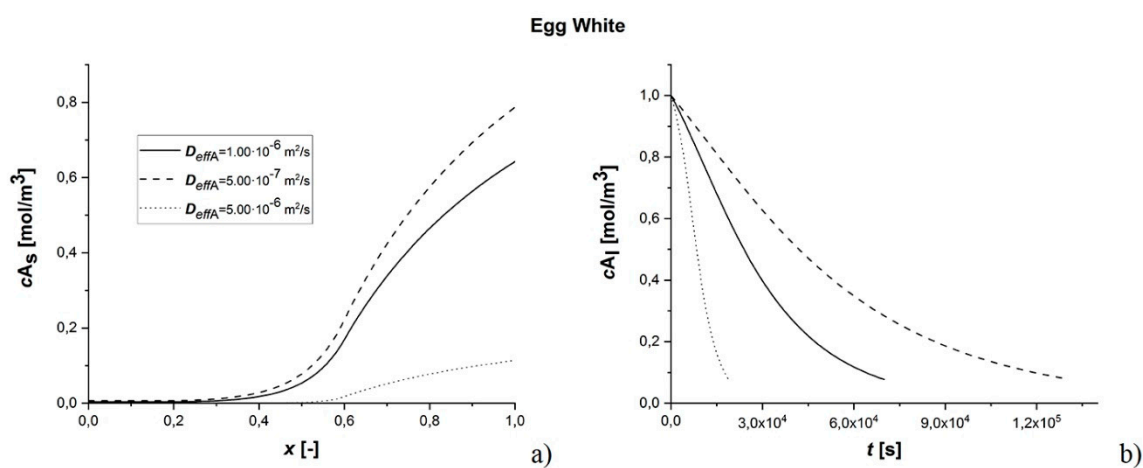


Figure S40. (a) Intraparticle profile of c_{As} at time $t = 1.7 \cdot 10^4$ s. (b) Bulk profile of c_{Al} over time.

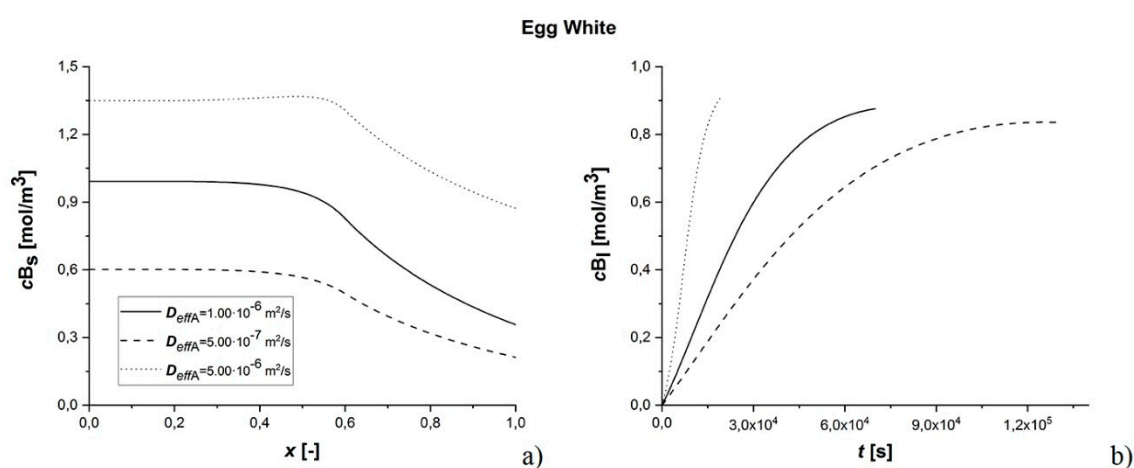


Figure S41. (a) Intraparticle profile of c_{Bs} at time $t = 1.7 \cdot 10^4$ s. (b) Bulk profile of c_{Bl} over time.

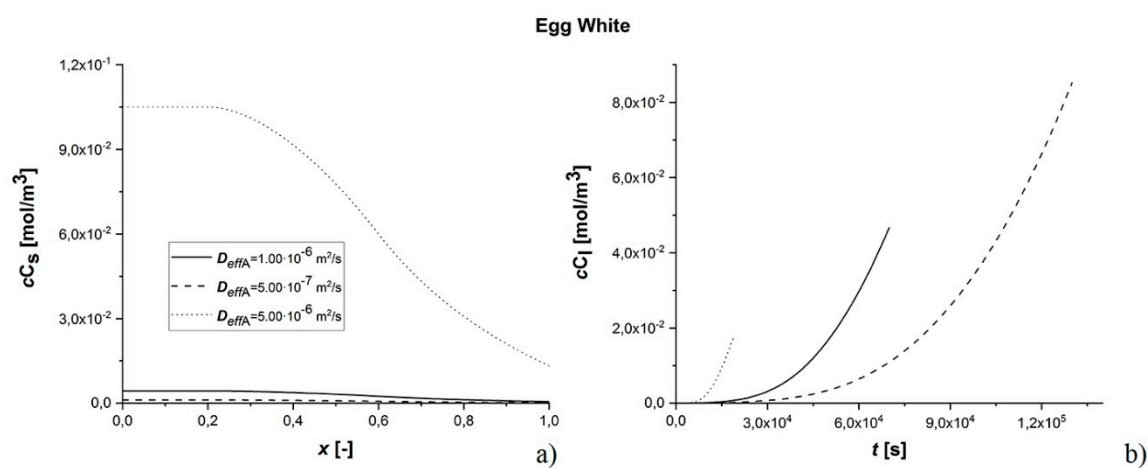


Figure S42. (a) Intraparticle profile of c_{Cs} at time $t = 1.7 \cdot 10^4$ s. (b) Bulk profile of c_{Cl} over time.

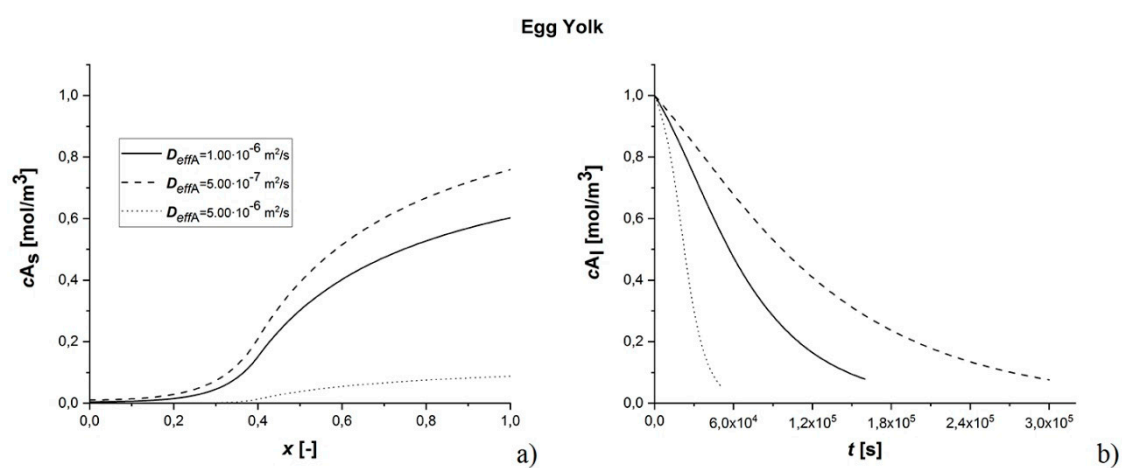


Figure S43. (a) Intraparticle profile of c_{As} at time $t = 4.5 \cdot 10^4$ s. (b) Bulk profile of c_{Al} over time.

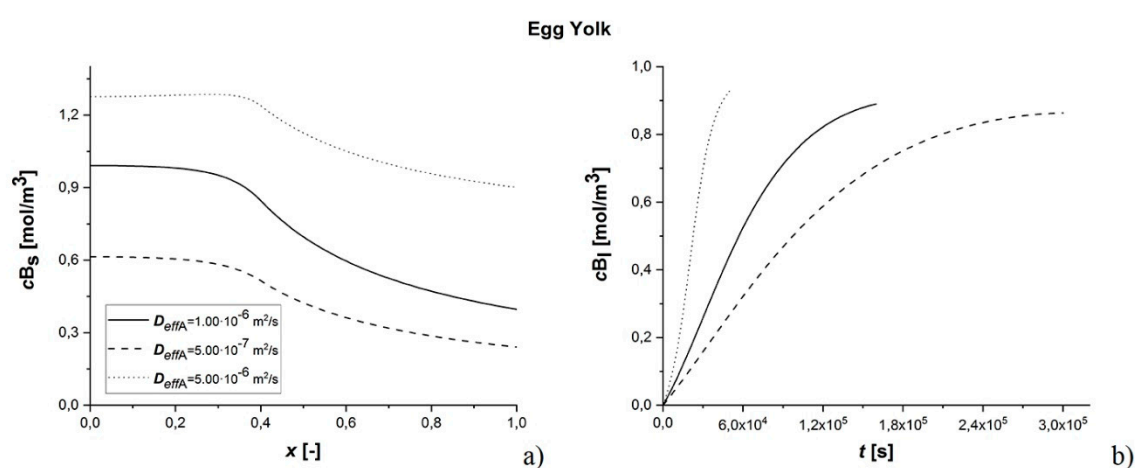


Figure S44. (a) Intraparticle profile of c_{Bs} at time $t = 4.5 \cdot 10^4$ s. (b) Bulk profile of c_{Bl} over time.

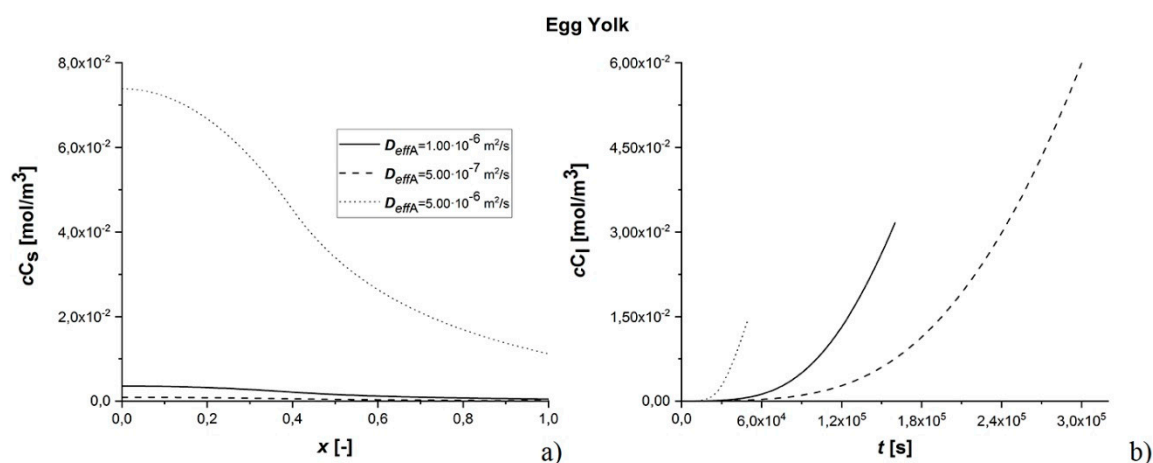


Figure S45. (a) Intraparticle profile of c_{Cs} at time $t = 4.5 \cdot 10^4$ s. (b) Bulk profile of c_{Cl} over time.

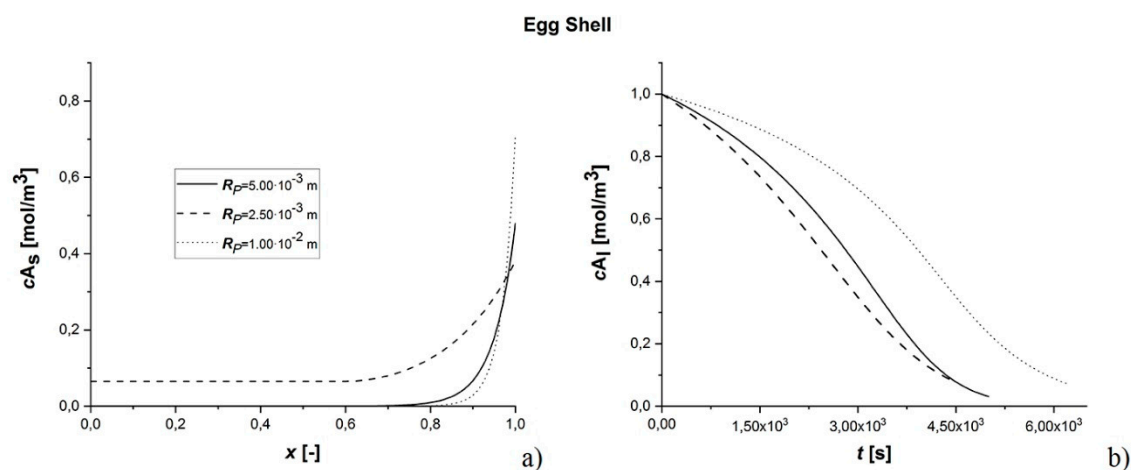


Figure S46. (a) Intraparticle profile of c_{As} at time $t = 2.9 \cdot 10^3$ s. (b) Bulk profile of c_{Al} over time.

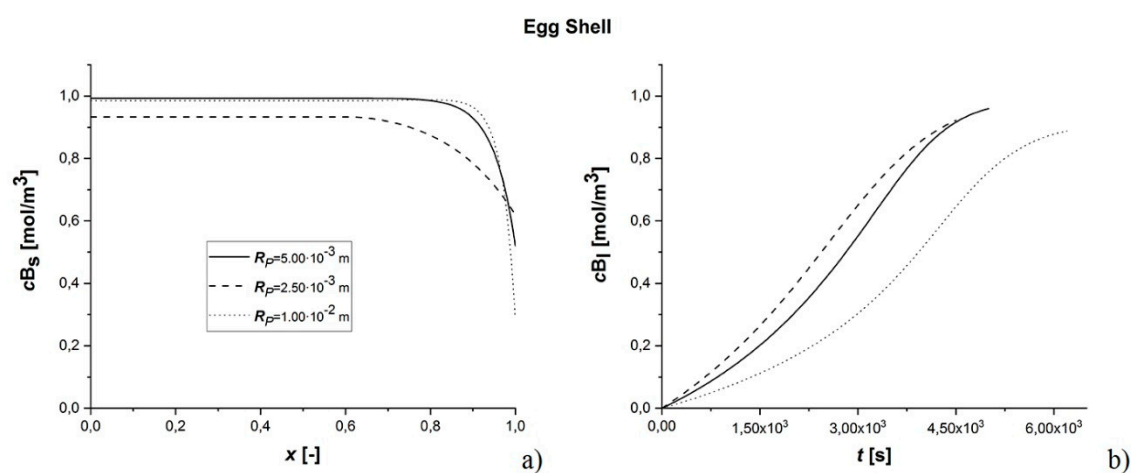


Figure S47. (a) Intraparticle profile of c_{Bs} at time $t = 2.9 \cdot 10^3$ s. (b) Bulk profile of c_{Bl} over time.

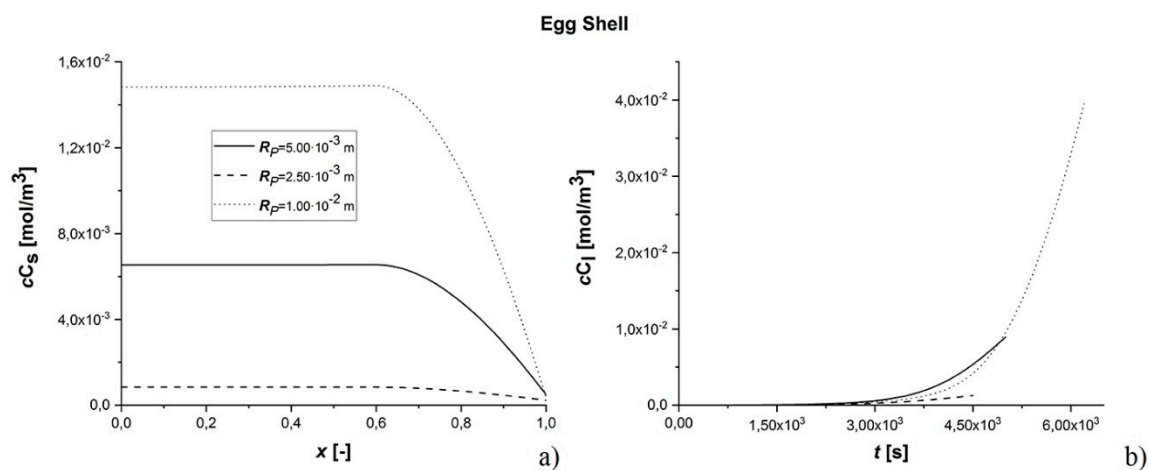


Figure S48. (a) Intraparticle profile of c_{Cs} at time $t = 2.9 \cdot 10^3$ s. (b) Bulk profile of c_{Cl} over time.

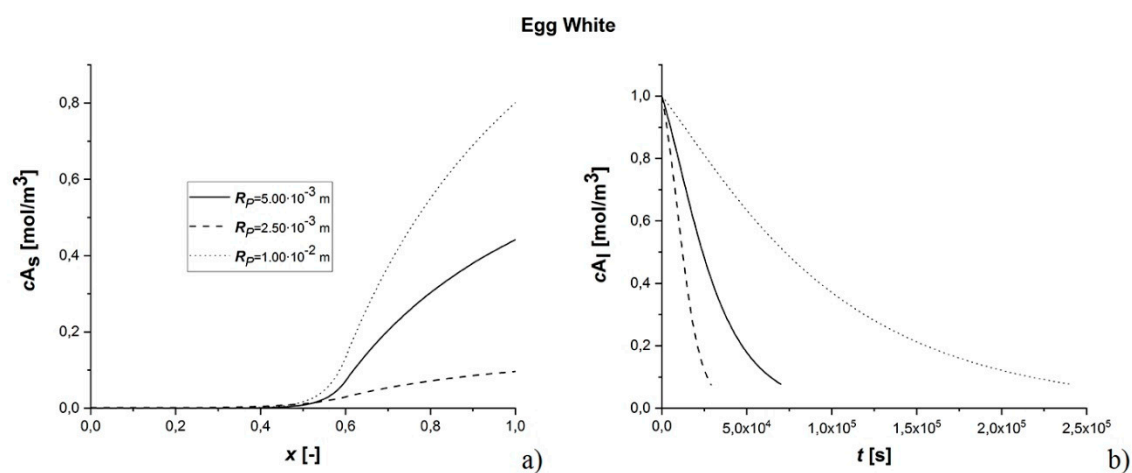


Figure S49. (a) Intraparticle profile of c_{As} at time $t = 2.7 \cdot 10^4$ s. (b) Bulk profile of c_{Al} over time.

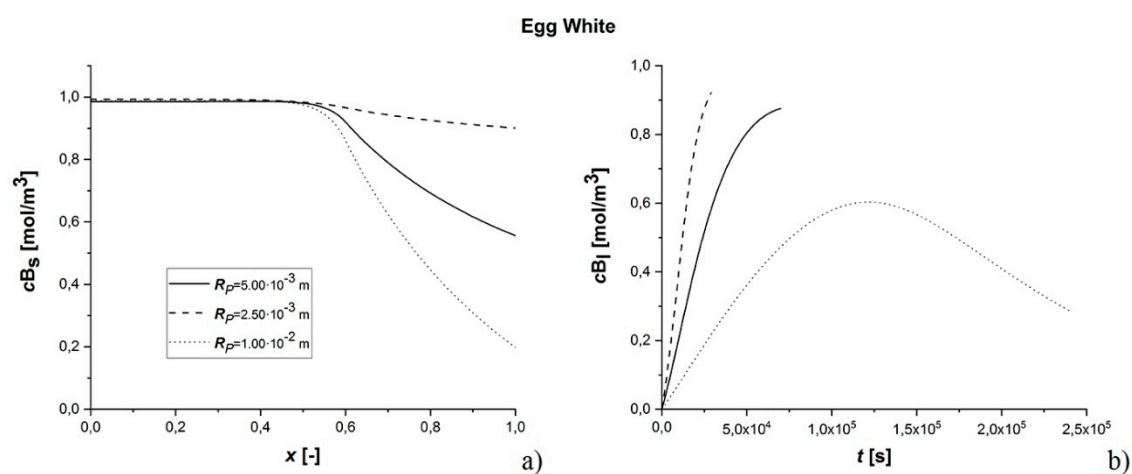


Figure S50. (a) Intraparticle profile of c_{Bs} at time $t = 2.7 \cdot 10^4$ s. (b) Bulk profile of c_{Bl} over time.

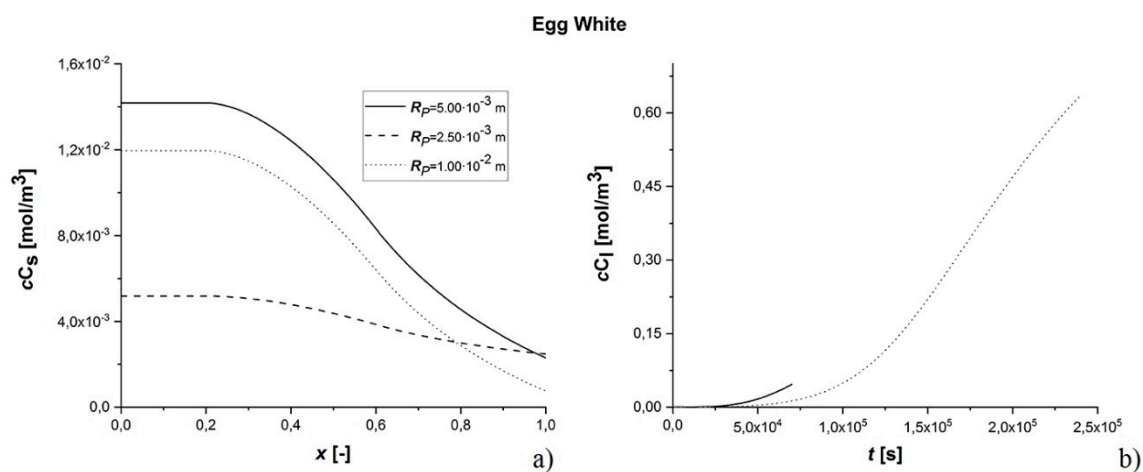


Figure S51. (a) Intraparticle profile of c_{Cs} at time $t = 2.7 \cdot 10^4$ s. (b) Bulk profile of c_{Cl} over time.

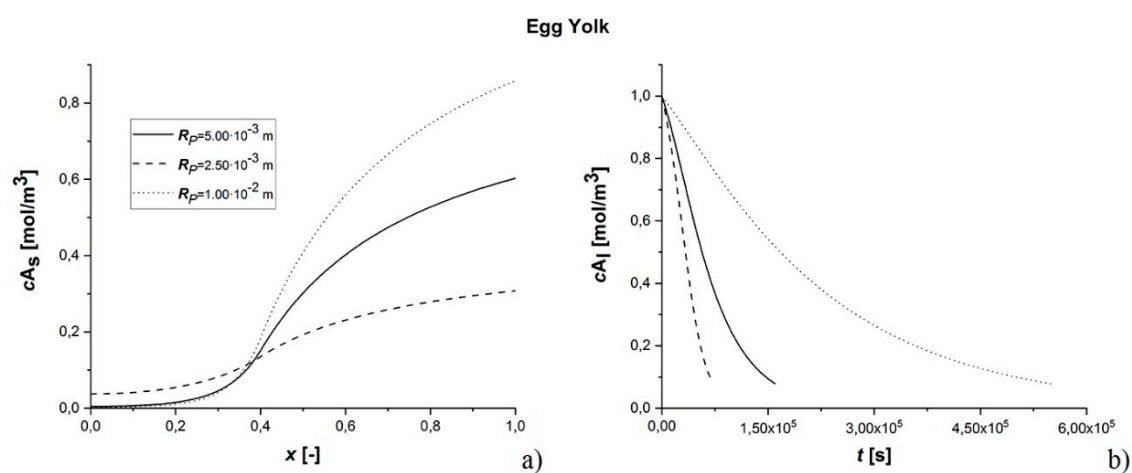


Figure S52. (a) Intraparticle profile of c_{As} at time $t = 4.5 \cdot 10^4$ s. (b) Bulk profile of c_{Al} over time.

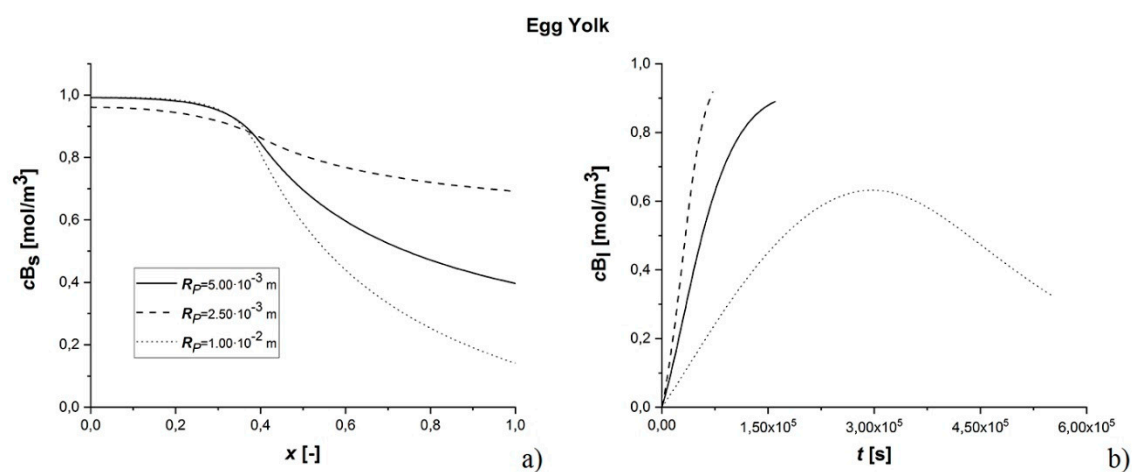


Figure S53. (a) Intraparticle profile of c_{Bs} at time $t = 4.5 \cdot 10^4$ s. (b) Bulk profile of c_{Bl} over time.

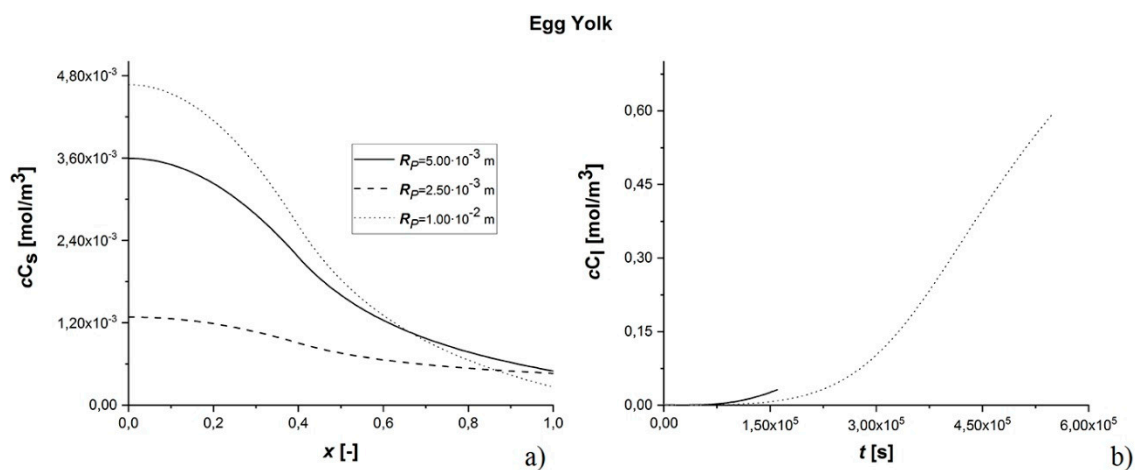


Figure S54. (a) Intraparticle profile of c_{Cs} at time $t = 4.5 \cdot 10^4$ s. (b) Bulk profile of c_{Ci} over time.

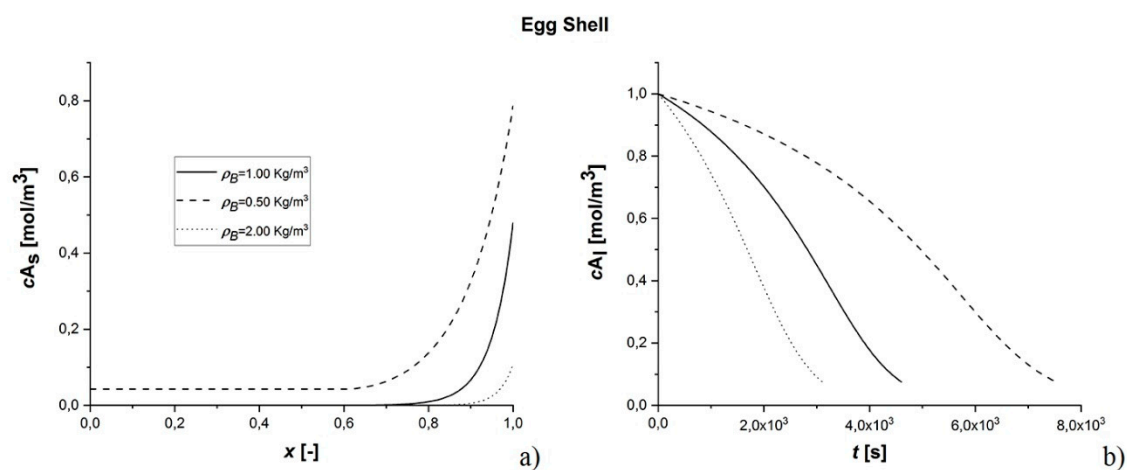


Figure S55. (a) Intraparticle profile of c_{As} at time $t = 2.9 \cdot 10^3$ s. (b) Bulk profile of c_{Ai} over time.

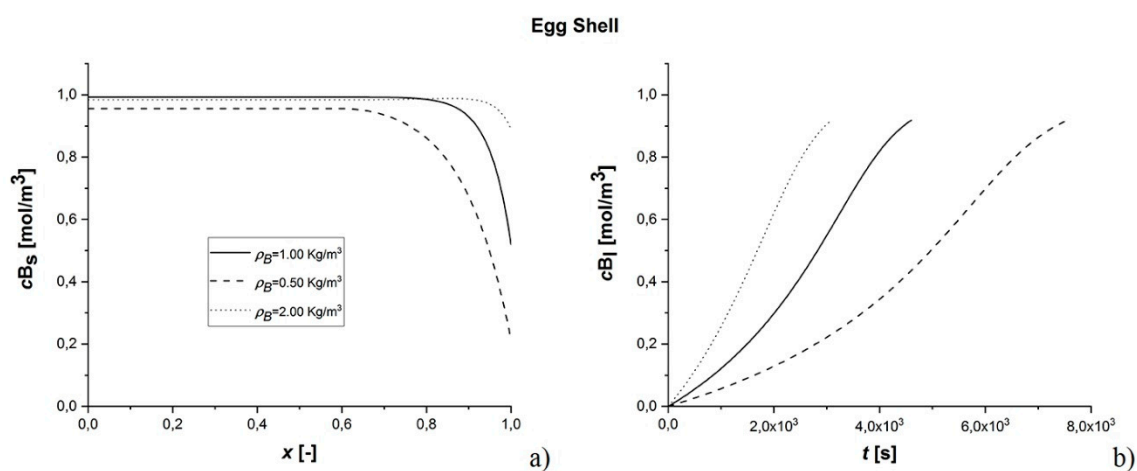


Figure S56. (a) Intraparticle profile of c_{Bs} at time $t = 2.9 \cdot 10^3$ s. (b) Bulk profile of c_{Bi} over time.

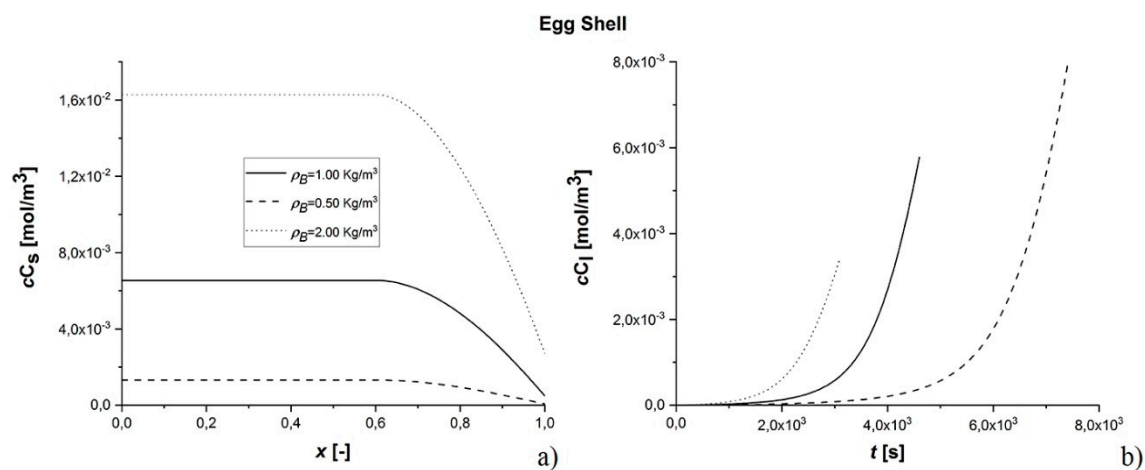


Figure S57. (a) Intraparticle profile of c_{Cs} at time $t = 2.9 \cdot 10^3$ s. (b) Bulk profile of c_{Cl} over time.

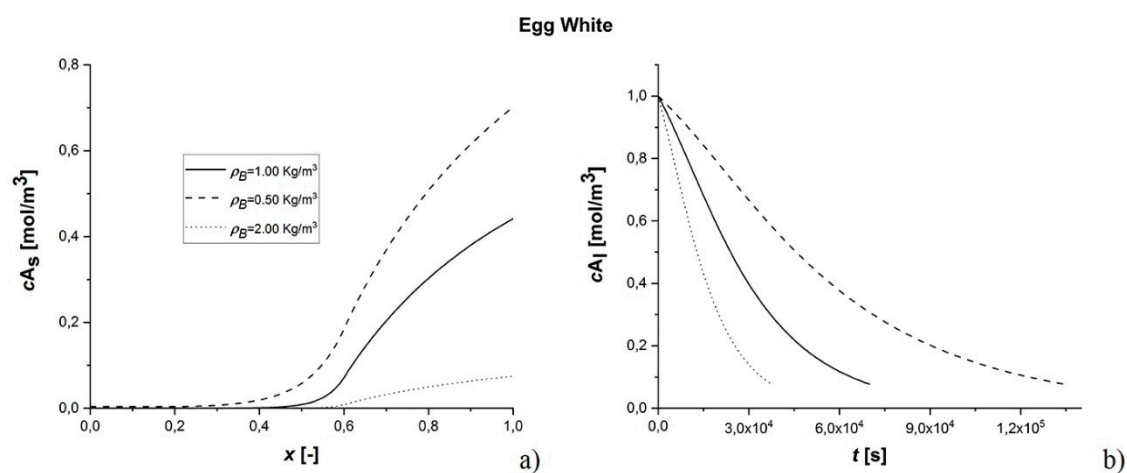


Figure S58. (a) Intraparticle profile of c_{As} at time $t = 2.7 \cdot 10^4$ s. (b) Bulk profile of c_{Al} over time.

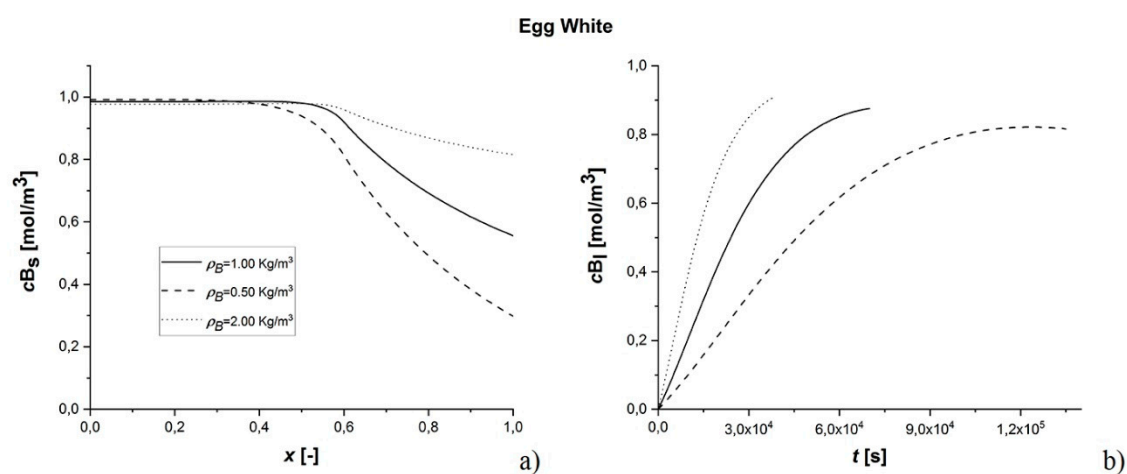


Figure S59. (a) Intraparticle profile of c_{Bs} at time $t = 2.7 \cdot 10^4$ s. (b) Bulk profile of c_{Bl} over time.

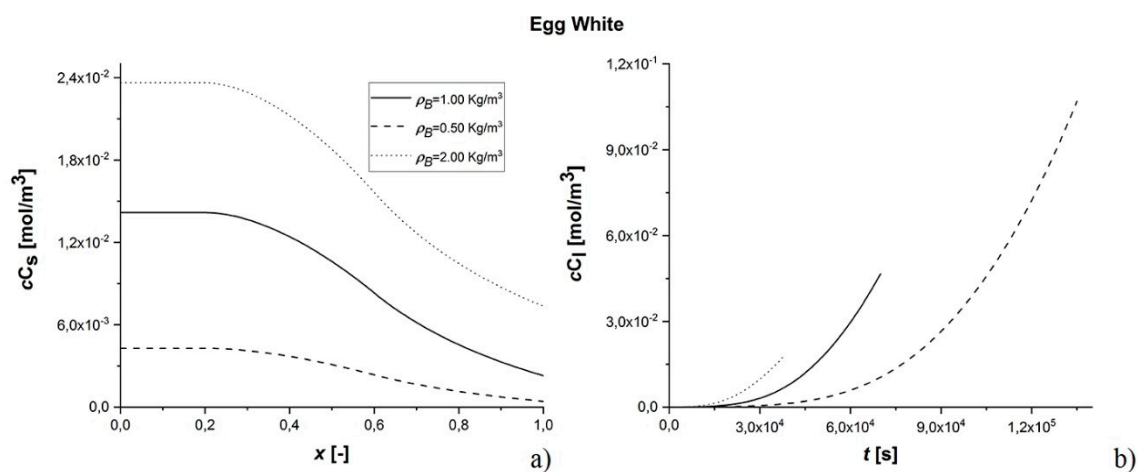


Figure S60. (a) Intraparticle profile of c_{Cs} at time $t = 2.7 \cdot 10^4$ s. (b) Bulk profile of c_{Cl} over time.

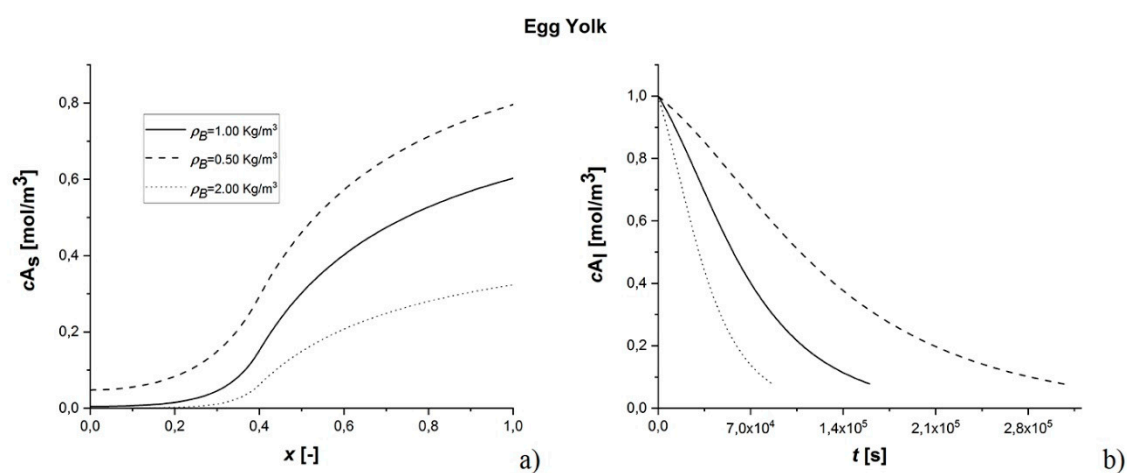


Figure S61. (a) Intraparticle profile of c_{As} at time $t = 4.5 \cdot 10^4$ s. (b) Bulk profile of c_{Al} over time.

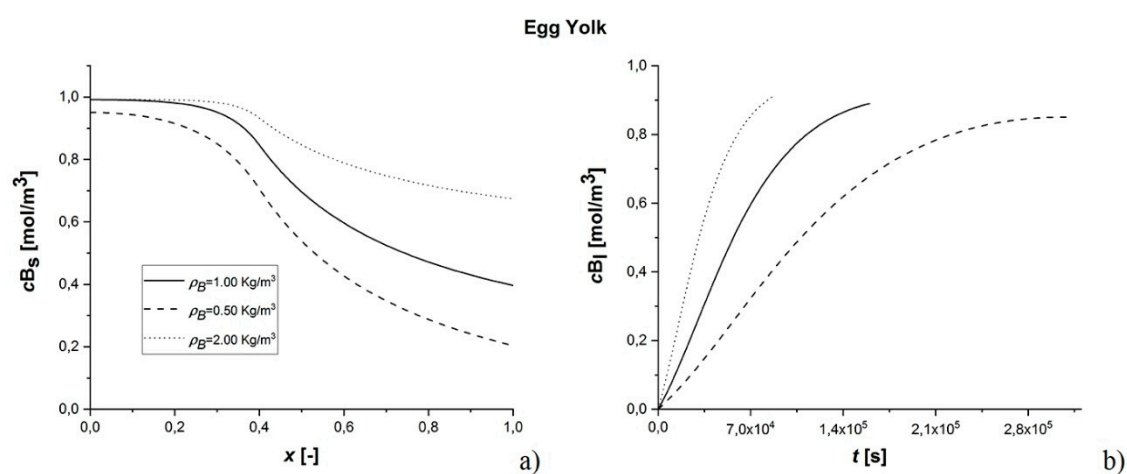


Figure S62. (a) Intraparticle profile of c_{Bs} at time $t = 4.5 \cdot 10^4$ s. (b) Bulk profile of c_{Bl} over time.

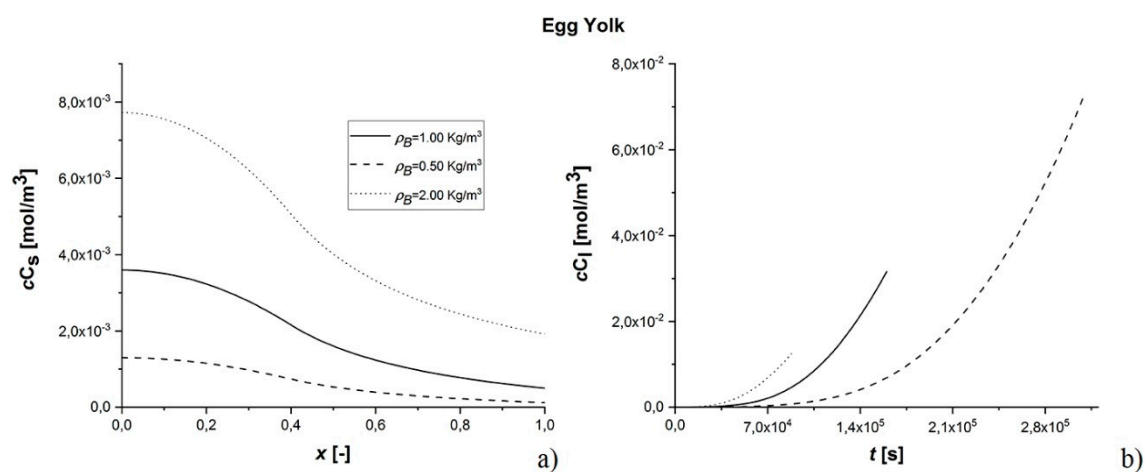


Figure S63. (a) Intraparticle profile of c_{Cs} at time $t = 4.5 \cdot 10^4$ s. (b) Bulk profile of c_{Cl} over time.

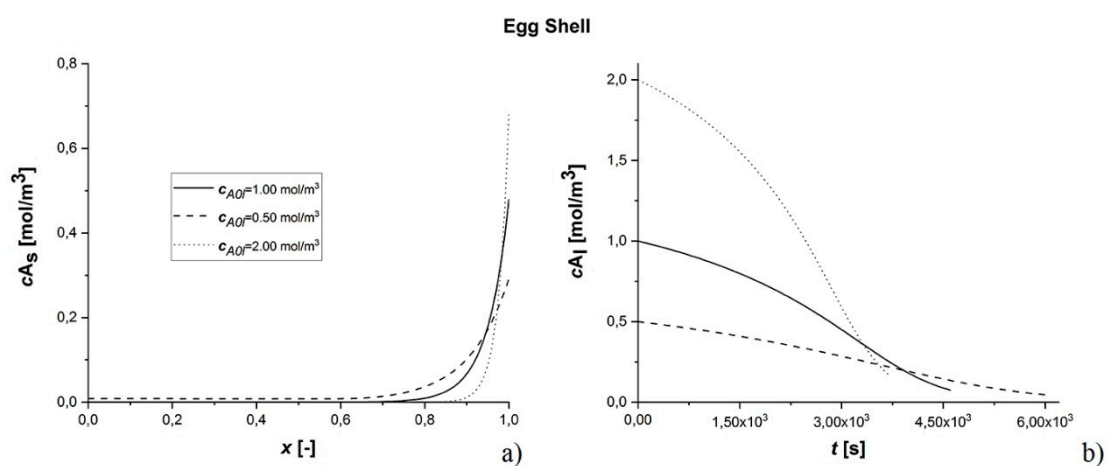


Figure S64. (a) Intraparticle profile of c_{As} at time $t = 2.9 \cdot 10^3$ s. (b) Bulk profile of c_{Al} over time.

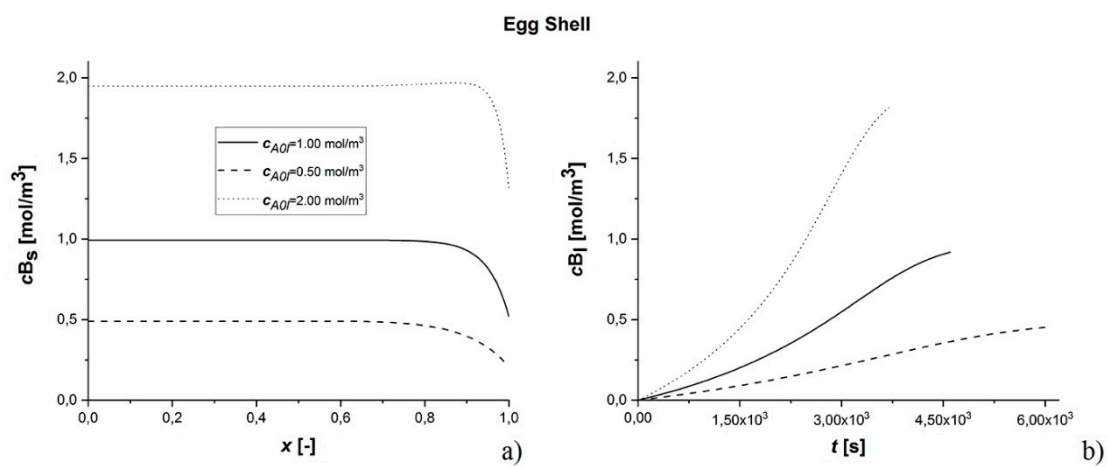


Figure S65. (a) Intraparticle profile of c_{Bs} at time $t = 2.9 \cdot 10^3$ s. (b) Bulk profile of c_{Bl} over time.

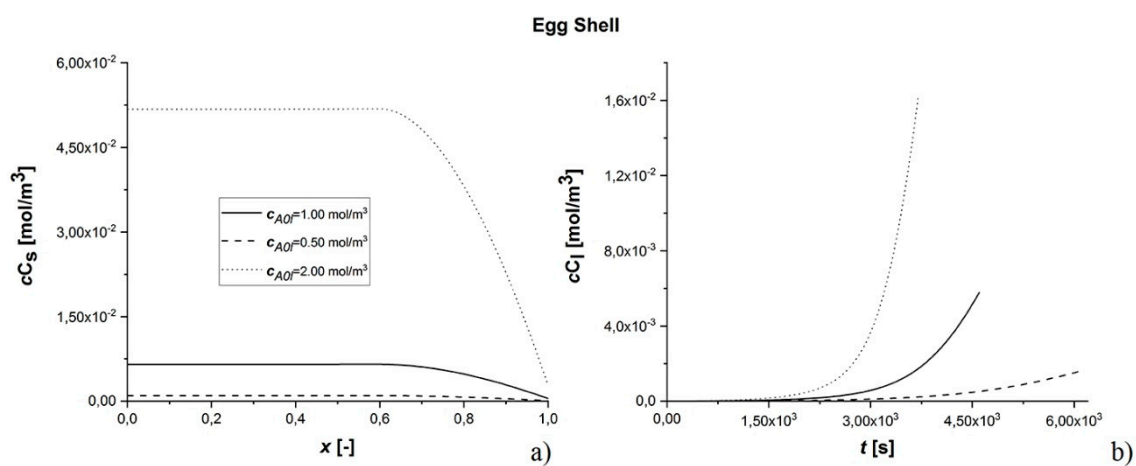


Figure S66. (a) Intraparticle profile of c_{Cs} at time $t = 2.9 \cdot 10^3$ s. (b) Bulk profile of c_{Cl} over time.

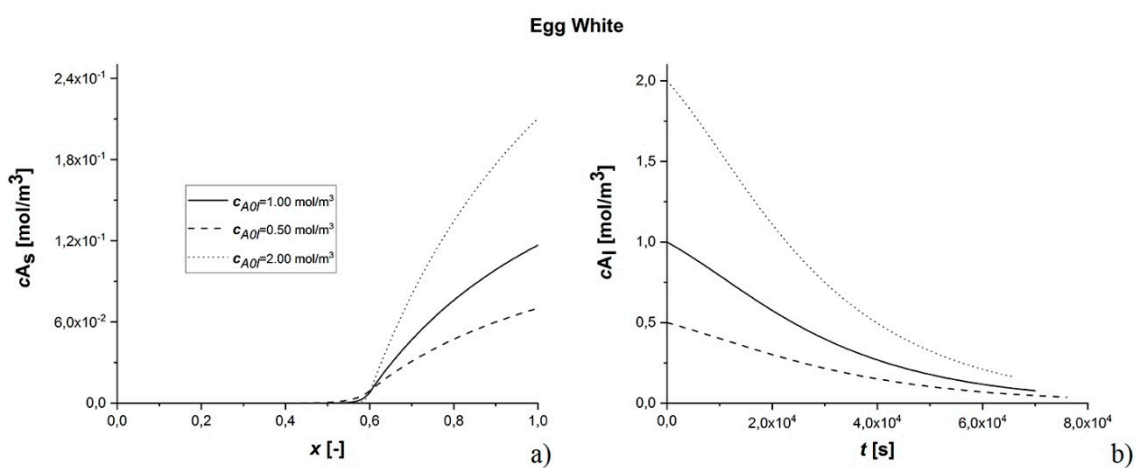


Figure S67. (a) Intraparticle profile of c_{As} at time $t = 6.0 \cdot 10^4$ s. (b) Bulk profile of c_{Al} over time.

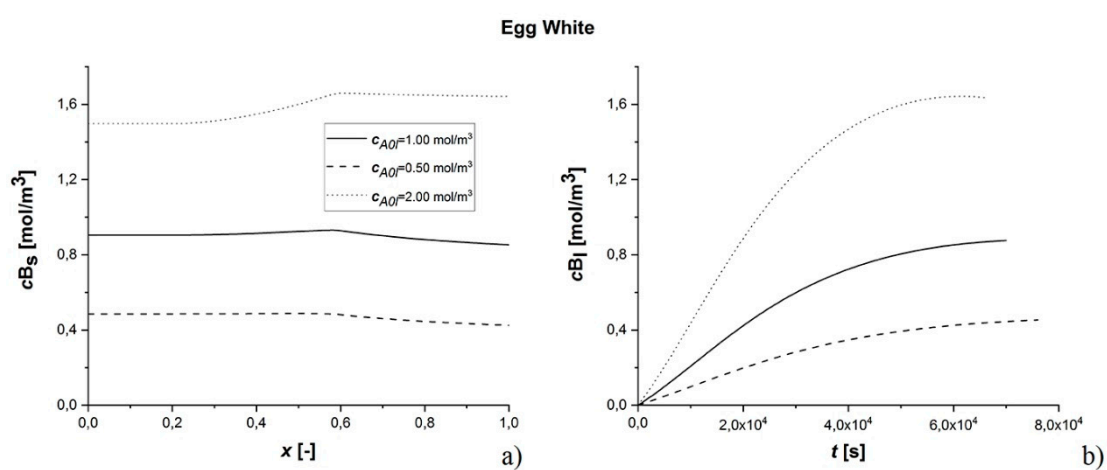


Figure S68. (a) Intraparticle profile of c_{Bs} at time $t = 6.0 \cdot 10^4$ s. (b) Bulk profile of c_{Bl} over time.

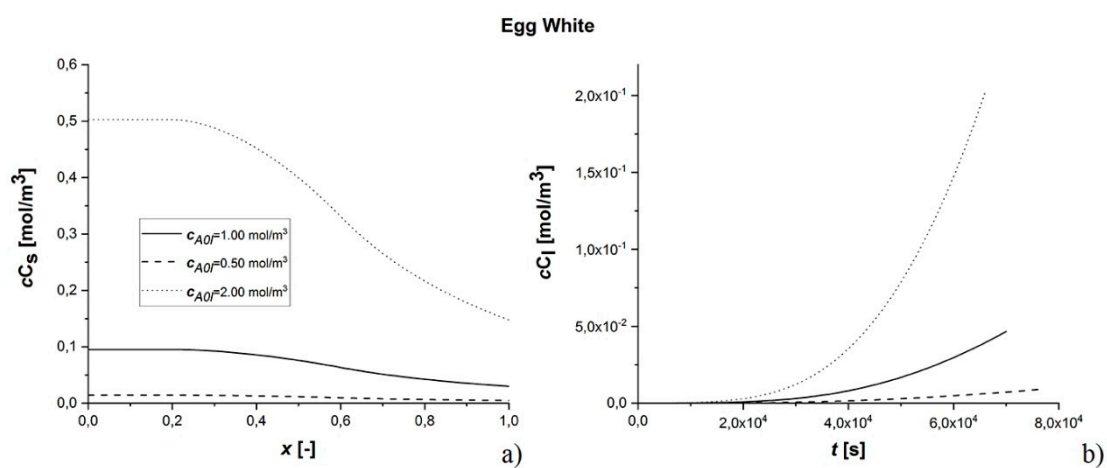


Figure S69. (a) Intraparticle profile of c_{Cs} at time $t = 6.0 \cdot 10^4$ s. (b) Bulk profile of c_{CI} over time.

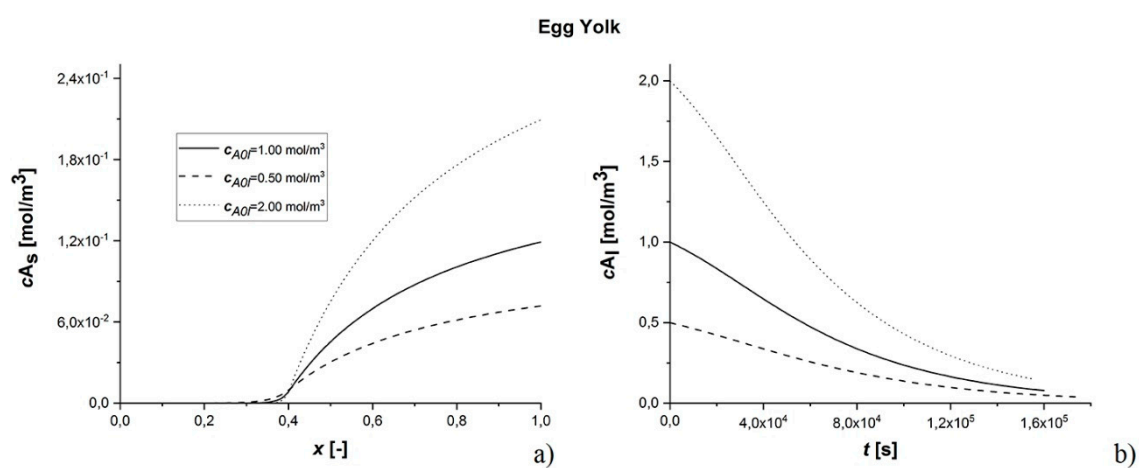


Figure S70. (a) Intraparticle profile of c_{As} at time $t = 1.38 \cdot 10^5$ s. (b) Bulk profile of c_{AI} over time.

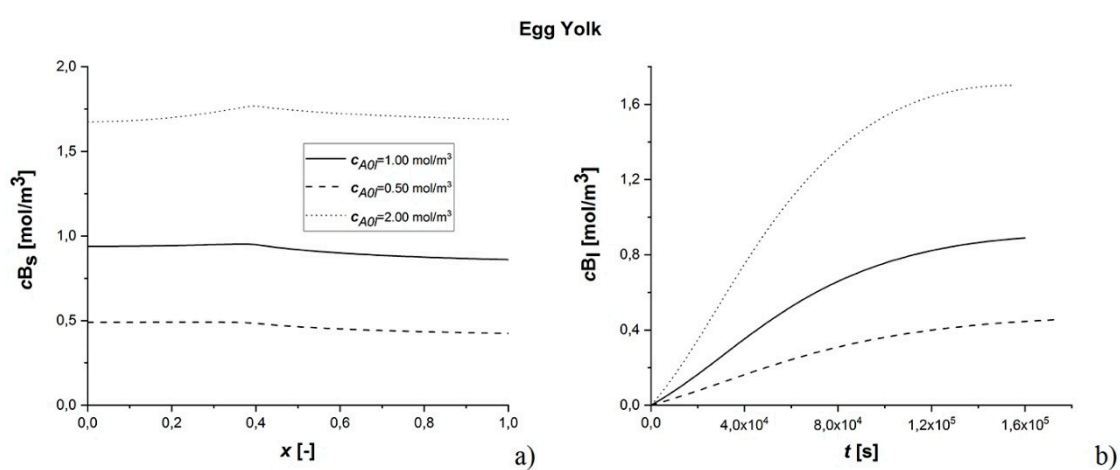


Figure S71. (a) Intraparticle profile of c_{Bs} at time $t = 1.38 \cdot 10^5$ s. (b) Bulk profile of c_{BI} over time.

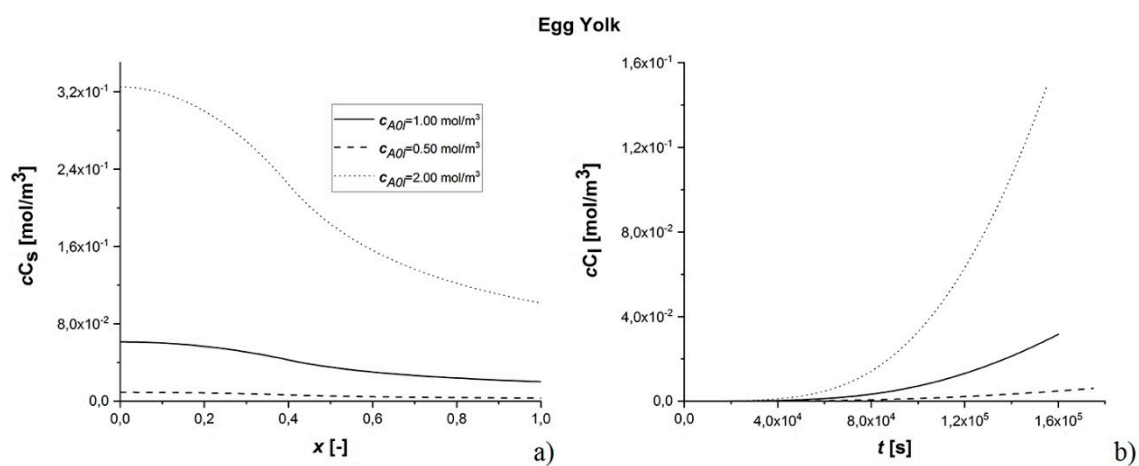


Figure S72. (a) Intraparticle profile of c_{Cs} at time $t = 1.38 \cdot 10^5$ s. (b) Bulk profile of c_{Cl} over time.

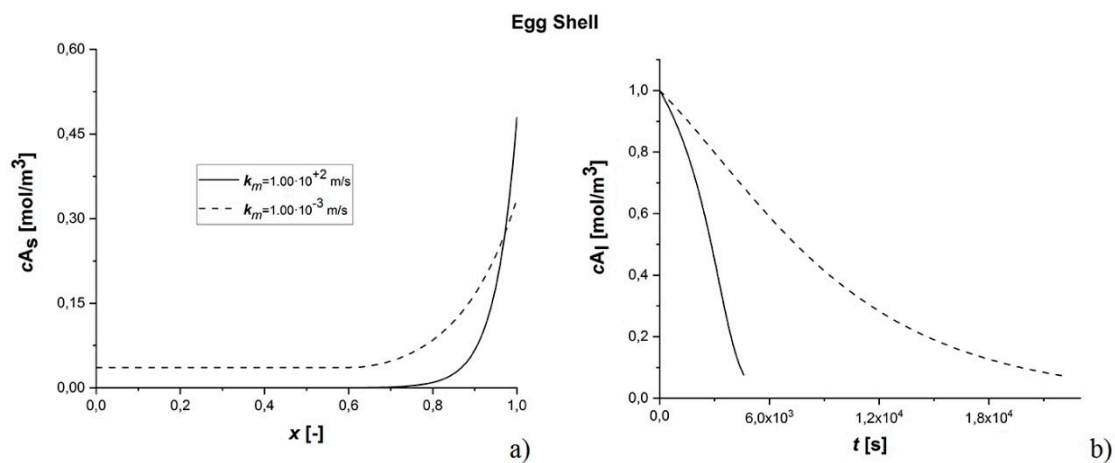


Figure S73. (a) Intraparticle profile of c_{As} at time $t = 2.9 \cdot 10^3$ s. (b) Bulk profile of c_{Al} over time.

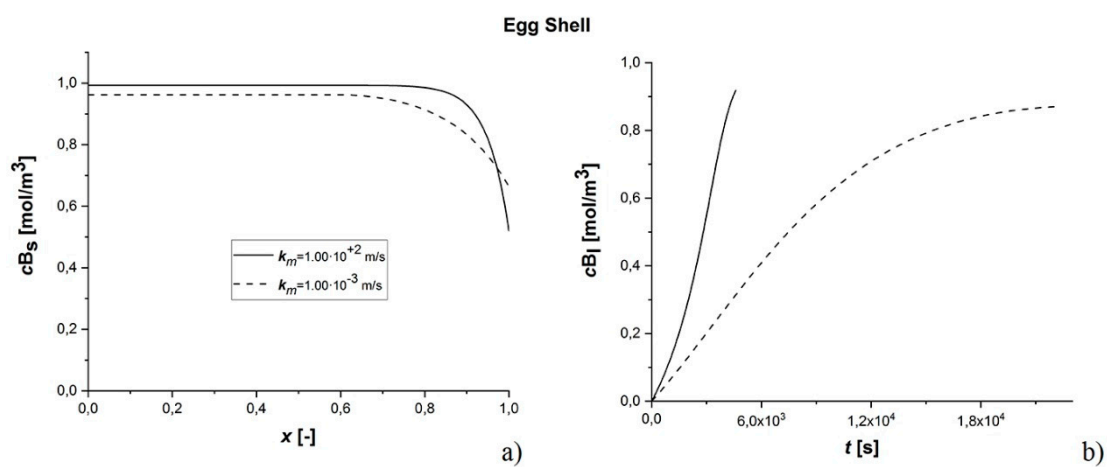


Figure S74. (a) Intraparticle profile of c_{Bs} at time $t = 2.9 \cdot 10^3$ s. (b) Bulk profile of c_{Bl} over time.

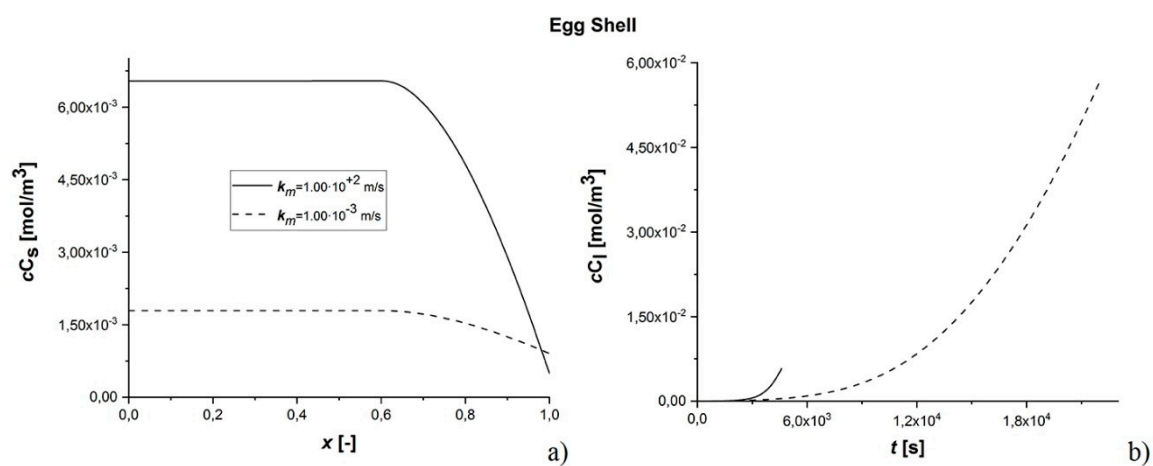


Figure S75. (a) Intraparticle profile of c_{Cs} at time $t = 2.9 \cdot 10^3$ s. (b) Bulk profile of c_{Cl} over time.

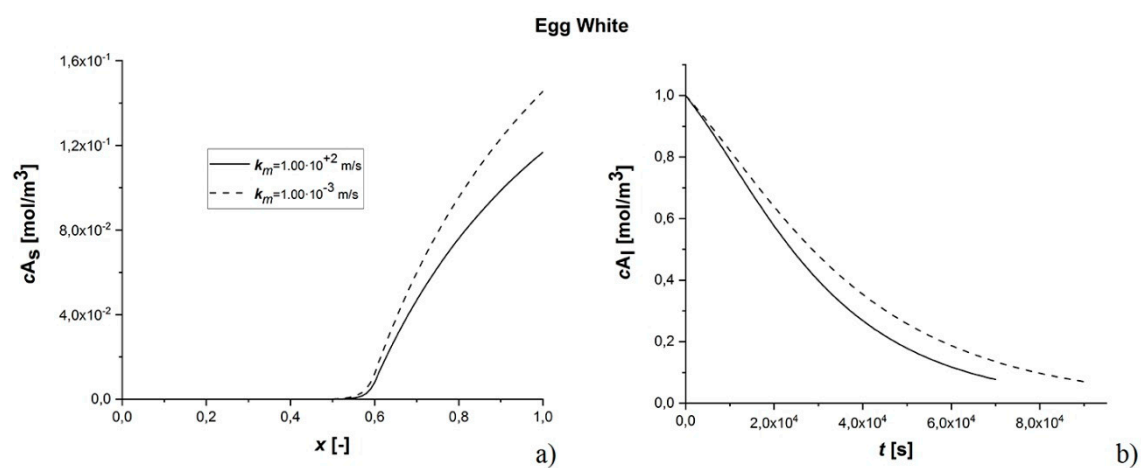


Figure S76. (a) Intraparticle profile of c_{As} at time $t = 6.0 \cdot 10^4$ s. (b) Bulk profile of c_{Al} over time.

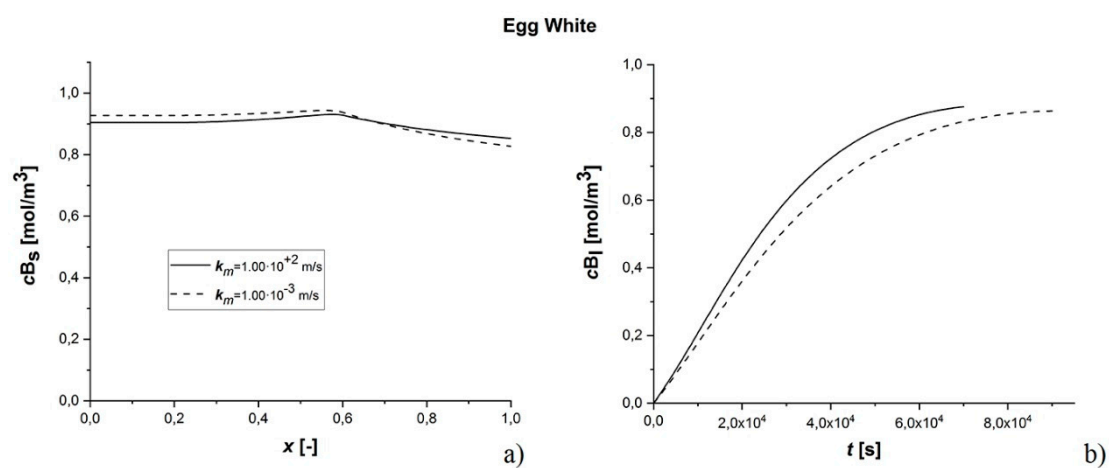


Figure S77. (a) Intraparticle profile of c_{Bs} at time $t = 6.0 \cdot 10^4$ s. (b) Bulk profile of c_{Bl} over time.

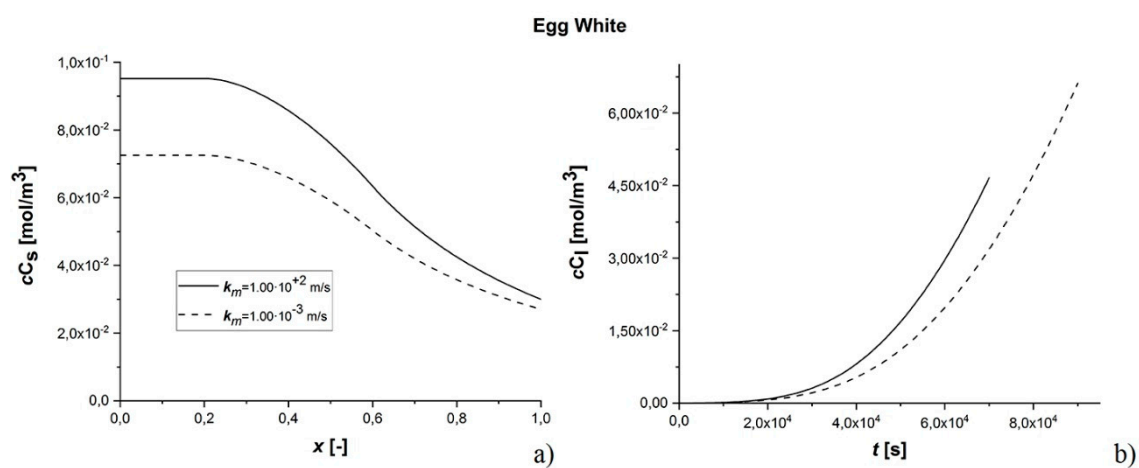


Figure S78. (a) Intraparticle profile of c_{Cs} at time $t = 6.0 \cdot 10^4$ s. (b) Bulk profile of c_{Cl} over time.

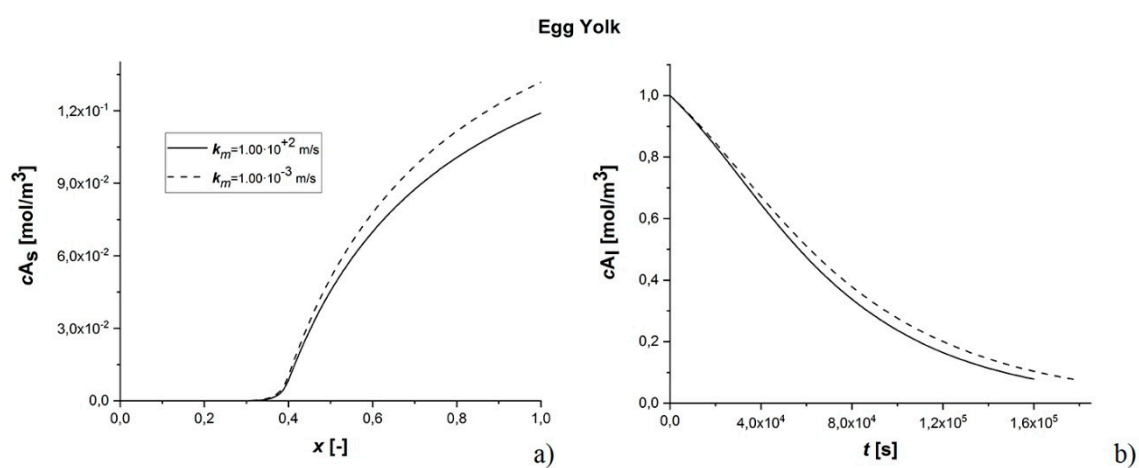


Figure S79. (a) Intraparticle profile of c_{As} at time $t = 1.38 \cdot 10^5$ s. (b) Bulk profile of c_{Al} over time.

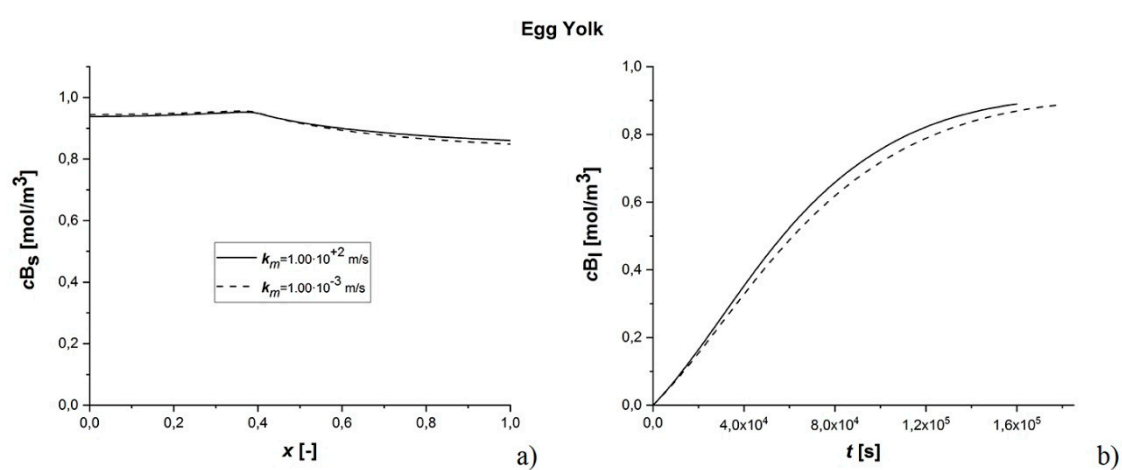


Figure S80. (a) Intraparticle profile of c_{Bs} at time $t = 1.38 \cdot 10^5$ s. (b) Bulk profile of c_{Bl} over time.

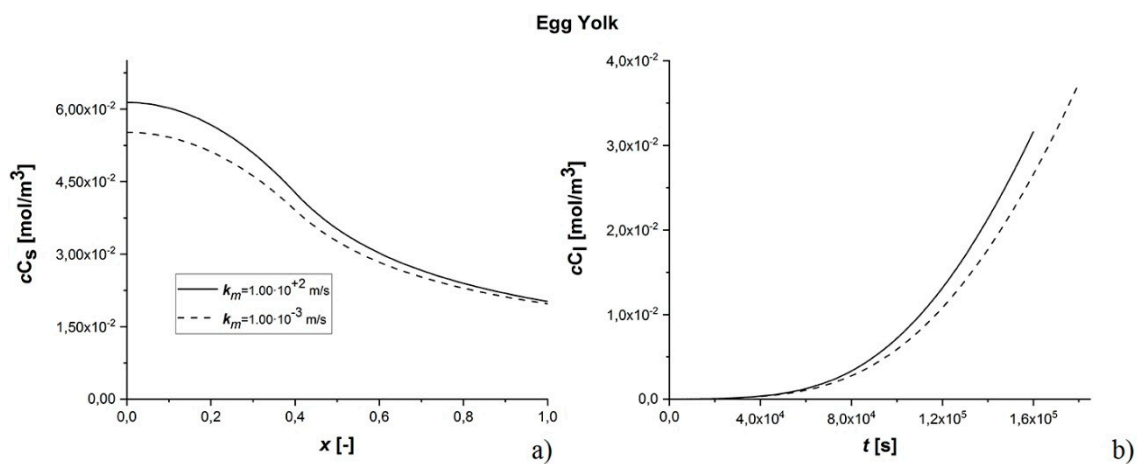


Figure S81. (a) Intraparticle profile of c_{Cs} at time $t = 1.38 \cdot 10^5$ s. (b) Bulk profile of c_{CI} over time.

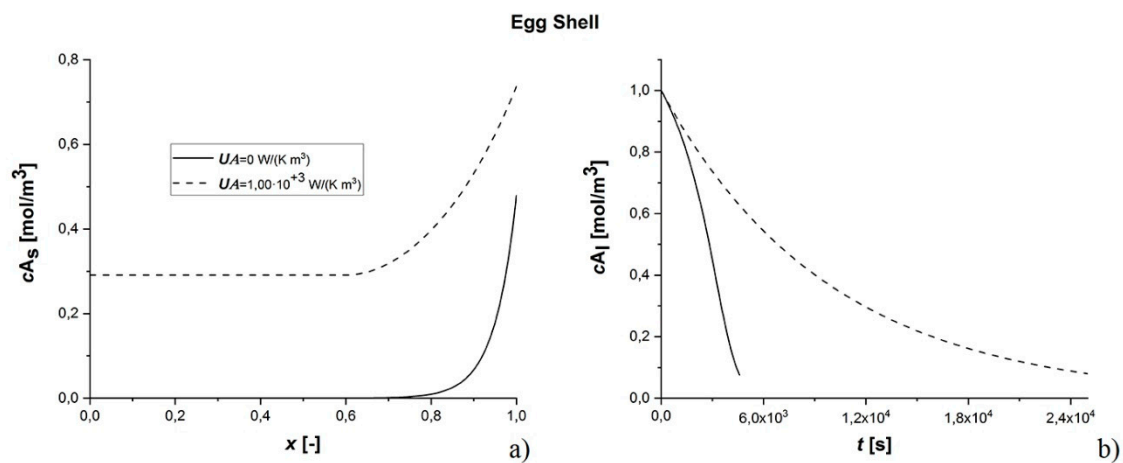


Figure S82. (a) Intraparticle profile of c_{As} at time $t = 2.9 \cdot 10^3$ s. (b) Bulk profile of c_{AI} over time.

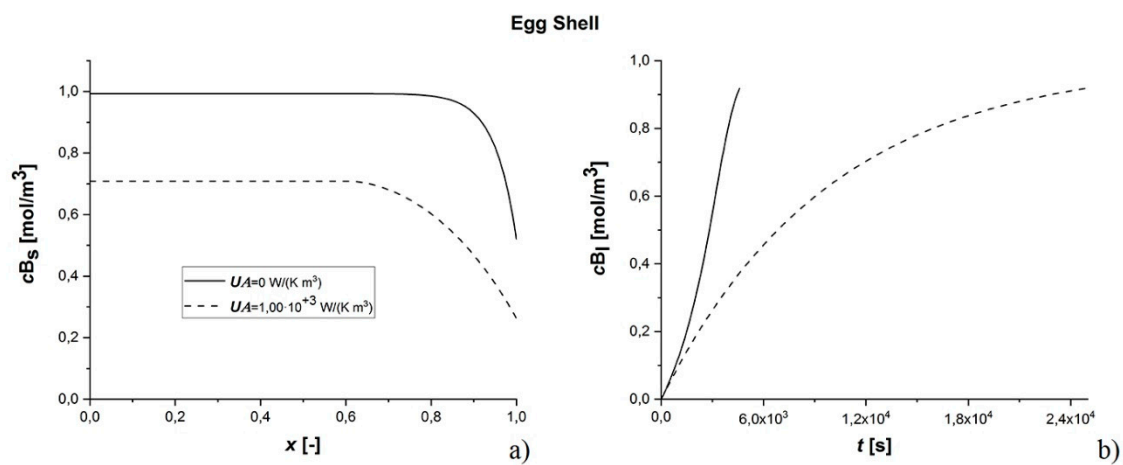


Figure S83. (a) Intraparticle profile of c_{Bs} at time $t = 2.9 \cdot 10^3$ s. (b) Bulk profile of c_{BI} over time.

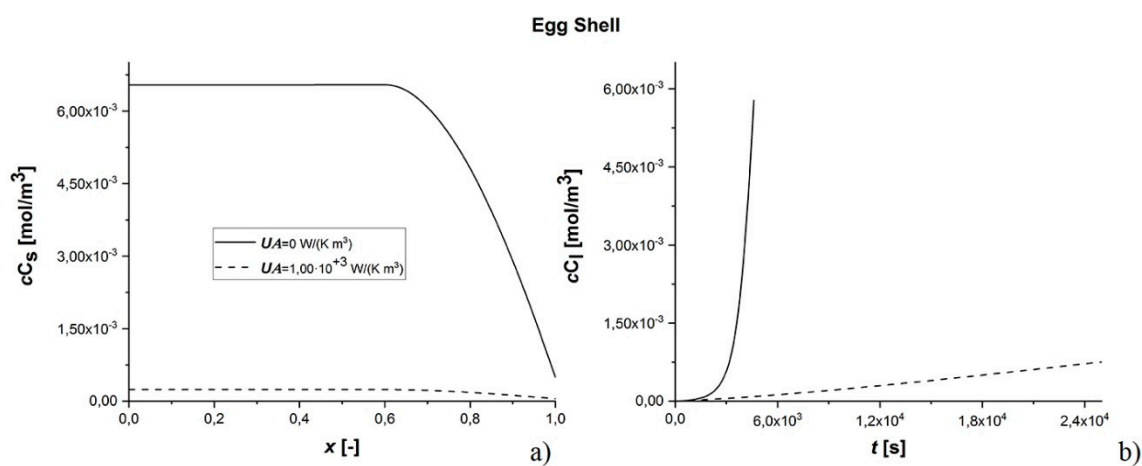


Figure S84. (a) Intraparticle profile of c_{Cs} at time $t = 2.9\cdot10^3$ s. (b) Bulk profile of c_{Cl} over time.

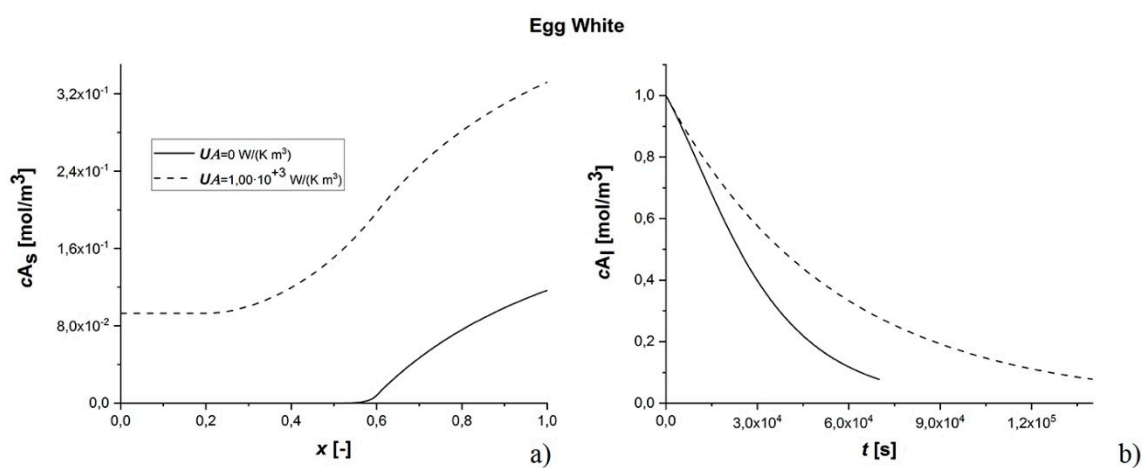


Figure S85. (a) Intraparticle profile of c_{As} at time $t = 6.0\cdot10^4$ s. (b) Bulk profile of c_{Al} over time.

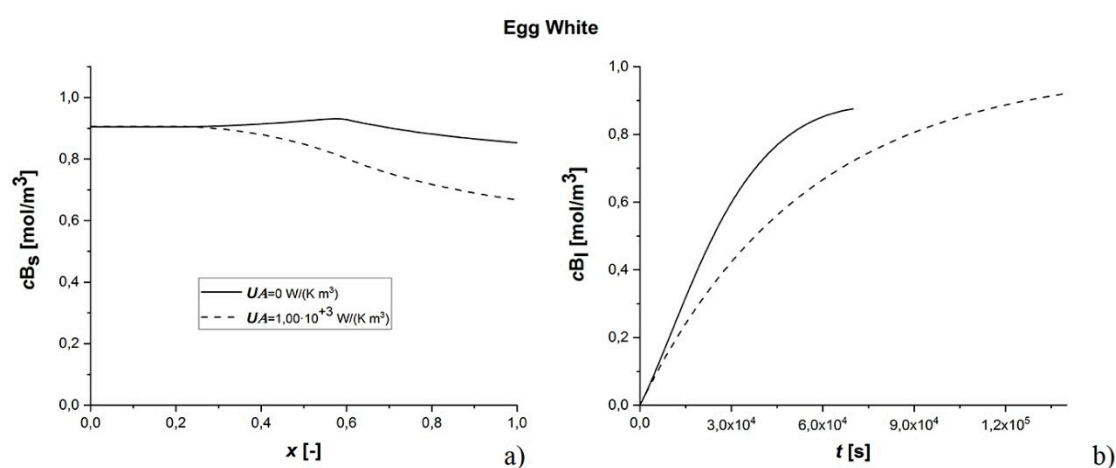


Figure S86. (a) Intraparticle profile of c_{Bs} at time $t = 6.0\cdot10^4$ s. (b) Bulk profile of c_{Bl} over time.

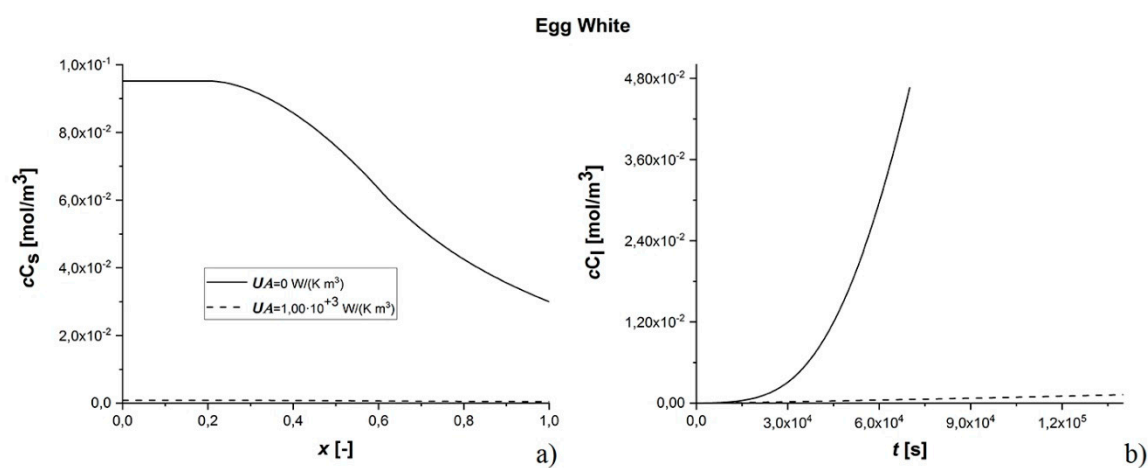


Figure S87. (a) Intraparticle profile of c_{Cs} at time $t = 6.0 \cdot 10^4$ s. (b) Bulk profile of c_{CI} over time.

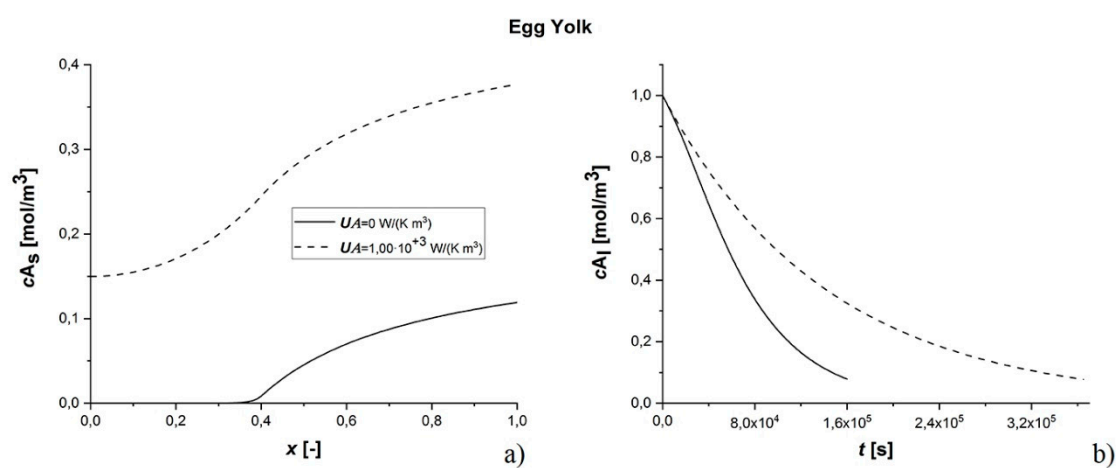


Figure S88. (a) Intraparticle profile of c_{As} at time $t = 1.38 \cdot 10^5$ s. (b) Bulk profile of c_{AI} over time.

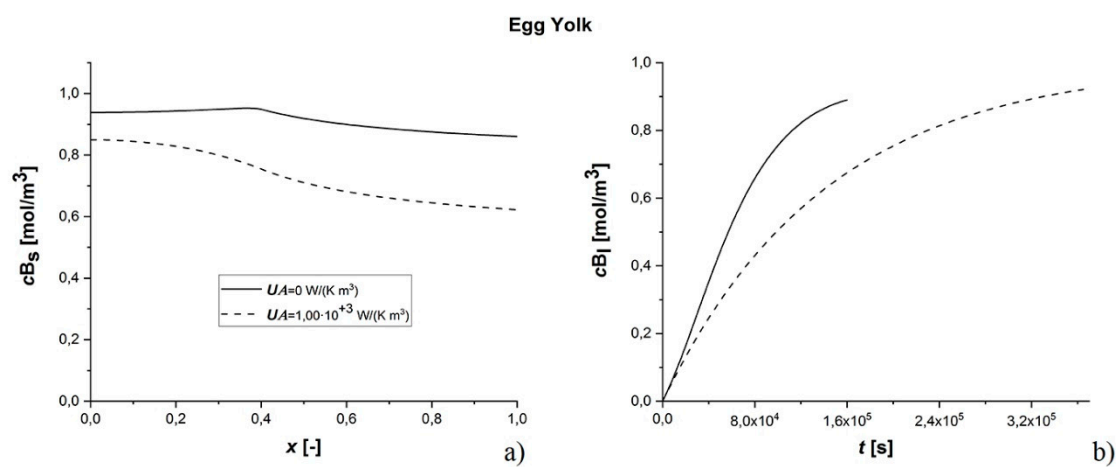


Figure S89. (a) Intraparticle profile of c_{Bs} at time $t = 1.38 \cdot 10^5$ s. (b) Bulk profile of c_{BI} over time.

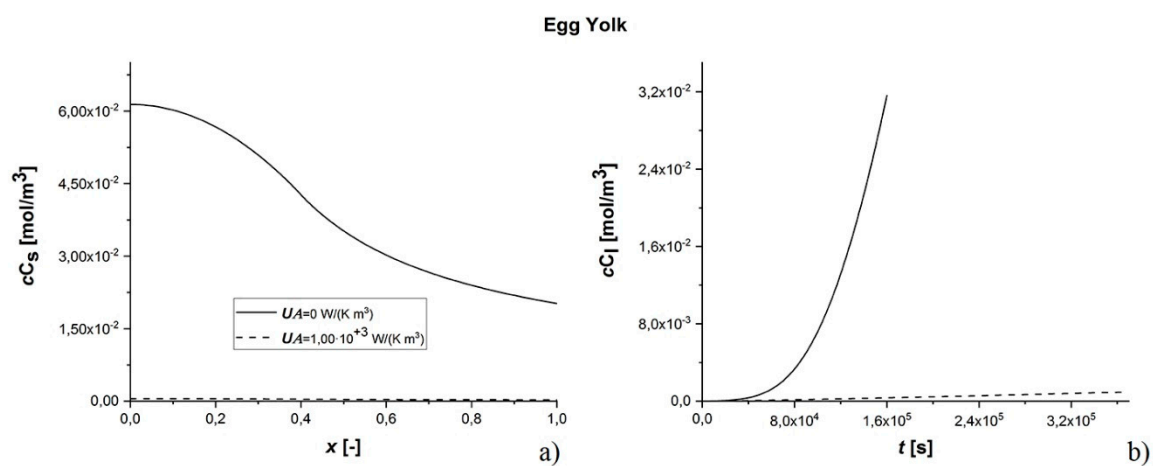


Figure S90. (a) Intraparticle profile of c_{Cs} at time $t = 1.38 \cdot 10^5$ s. (b) Bulk profile of c_{Cl} over time.