

Laurence Rongy

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	From Transport Phenomena to Systems Chemistry: Chemohydrodynamic Oscillations in $A+B\hat{\rightarrow}C$ Systems. ChemSystemsChem, 2022, 4, e2100023.	2.6	6
2	Spatial and Temporal Oscillations of Surface Tension Induced by an $A + B \hat{\rightarrow} C$ Traveling Front. Frontiers in Physics, 2022, 10, .	2.1	3
3	Critical Role of Layer Thickness in Frontal Polymerization. Journal of Physical Chemistry B, 2022, 126, 3607-3618.	2.6	3
4	Chemo-hydrodynamic pulsations in simple batch $A + B \hat{\rightarrow} C$ systems. Journal of Chemical Physics, 2021, 154, 114501.	3.0	10
5	Control of chemically driven convective dissolution by differential diffusion effects. Physical Review Fluids, 2021, 6, .	2.5	2
6	Reactive convective dissolution with differential diffusivities: Nonlinear simulations of onset times and asymptotic fluxes. Physical Review Fluids, 2020, 5, .	2.5	7
7	Chemically-driven convective dissolution. Physical Chemistry Chemical Physics, 2019, 21, 19054-19064.	2.8	7
8	Connecting gene expression to cellular movement: A transport model for cell migration. Physical Review E, 2019, 100, 032412.	2.1	1
9	Complex dynamics of interacting fronts in a simple $A+B\hat{\rightarrow}C$ reaction-diffusion system. Physical Review E, 2019, 100, 030201.	2.1	4
10	Making a Simple $A+B\hat{\rightarrow}C$ Reaction Oscillate by Coupling to Hydrodynamic Effect. Physical Review Letters, 2019, 122, 244502.	2.1	1
11	Enhanced convective dissolution due to an $A + B \hat{\rightarrow} C$ reaction: control of the non-linear dynamics via solutal density contributions. Physical Chemistry Chemical Physics, 2019, 21, 6432-6442.	2.8	8
12	Surface tension- and buoyancy-driven flows across horizontally propagating chemical fronts. Advances in Colloid and Interface Science, 2018, 255, 76-83.	14.7	23
13	Differential Diffusivity Effects in Reactive Convective Dissolution. Fluids, 2018, 3, 83.	1.7	13
14	Interaction of Pure Marangoni Convection with a Propagating Reactive Interface under Microgravity. Physical Review Letters, 2018, 121, 024501.	7.8	14
15	Modelling the propagation of a dynamical signature in gene expression mediated by the transport of extracellular microRNAs. Molecular BioSystems, 2017, 13, 2379-2391.	2.9	2
16	Enhanced steady-state dissolution flux in reactive convective dissolution. Physical Chemistry Chemical Physics, 2017, 19, 18565-18579.	2.8	24
17	Influence of Marangoni flows on the dynamics of isothermal $A + B \hat{\rightarrow} C$ reaction fronts. Journal of Chemical Physics, 2016, 145, 124701.	3.0	16
18	Convective dissolution of CO_2 in reactive alkaline solutions: Active role of spectator ions. International Journal of Greenhouse Gas Control, 2016, 53, 230-242.	4.6	36

#	ARTICLE	IF	CITATIONS
19	Density profiles around reaction-diffusion fronts in partially miscible systems: A general classification. <i>Physical Review E</i> , 2016, 94, 043115.	2.1	22
20	Chemical control of dissolution-driven convection in partially miscible systems: theoretical classification. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 29814-29823.	2.8	30
21	Viscous fluid injection into a confined channel. <i>Physics of Fluids</i> , 2015, 27, .	4.0	23
22	Impact of pressure, salt concentration, and temperature on the convective dissolution of carbon dioxide in aqueous solutions. <i>Chaos</i> , 2014, 24, 043120.	2.5	38
23	Convective dynamics of traveling autocatalytic fronts in a modulated gravity field. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 26279-26287.	2.8	22
24	Control of Convective Dissolution by Chemical Reactions: General Classification and Application to CO_2 in Reactive Aqueous Solutions. <i>Physical Review Letters</i> , 2014, 113, 114501.	7.8	76
25	A + B $\hat{=}$ C reaction fronts in Hele-Shaw cells under modulated gravitational acceleration. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 7337.	2.8	22
26	Marangoni-driven convection around exothermic autocatalytic chemical fronts in free-surface solution layers. <i>Chaos</i> , 2012, 22, 037106.	2.5	27
27	Dynamics due to combined buoyancy- and Marangoni-driven convective flows around autocatalytic fronts. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 14619.	2.8	34
28	Mixing from Fickian diffusion and natural convection in binary non-equilibrium fluid phases. <i>AIChE Journal</i> , 2012, 58, 1336-1345.	3.6	52
29	Influence of buoyancy-driven convection on the dynamics of A+B $\hat{=}$ C reaction fronts in horizontal solution layers. <i>Chemical Engineering Science</i> , 2010, 65, 2382-2391.	3.8	29
30	Influence of thermal effects on buoyancy-driven convection around autocatalytic chemical fronts propagating horizontally. <i>Chaos</i> , 2009, 19, 023110.	2.5	38
31	Buoyancy-driven convection around exothermic autocatalytic chemical fronts traveling horizontally in covered thin solution layers. <i>Journal of Chemical Physics</i> , 2009, 131, 184701.	3.0	16
32	Asymptotic structure of steady nonlinear reaction-diffusion-Marangoni convection fronts. <i>Physics of Fluids</i> , 2008, 20, .	4.0	17
33	Solitary Marangoni-driven convective structures in bistable chemical systems. <i>Physical Review E</i> , 2008, 77, 046310.	2.1	21
34	Dynamics of A + B $\hat{=}$ C Fronts in the Presence of Buoyancy-Driven Convection. <i>Physical Review Letters</i> , 2008, 101, 084503.	7.8	76
35	Buoyancy-driven convection around chemical fronts traveling in covered horizontal solution layers. <i>Journal of Chemical Physics</i> , 2007, 127, 114710.	3.0	40
36	Marangoni flow around chemical fronts traveling in thin solution layers: influence of the liquid depth. <i>Journal of Engineering Mathematics</i> , 2007, 59, 221-227.	1.2	22

#	ARTICLE	IF	CITATIONS
37	Steady Marangoni flow traveling with chemical fronts. Journal of Chemical Physics, 2006, 124, 164705.	3.0	50