

1. J.J. Xu, “**Dynamical Theory of Dendritic Growth in Convective Flow**”, published by Springer Publisher in the series of *Advances of Mechanics and Mathematics*, (240 pages) (2004).
2. J.J. Xu, “**Interfacial Wave Theory of Pattern Formation: Selection of Dendritic Growth and Viscous Fingering in Hele-Shaw Flow**” , Springer-Verlag Publisher in the series of *Synergetic*, (296 pages) (1997).
3. J.J. Xu and J. Schimizu, “Asymptotic Theory of Disc-like Crystal growth: (I). Basic State Solution”, Discrete and Continuous Dynamical Systems – Series B, Vol. 4, No: 4, pp. 1091–1116, (2004).
4. J.J. Xu and J. Schimizu, “Asymptotic Theory of Disc-like Crystal growth: (II). Interfacial Instability and Pattern Formation at Early Stage of Growth”
Communication on Pure and Applied Analysis, Vol. 3, No: 3, pp. 527–543, (2004)
5. J.J. Xu, and D.S. Yu, “Selection and Resonance of Dendritic Growth with Interference of Oscillatory External Sources”,
J. of Crystal Growth, 226, pp. 378–392, (2001).
6. J.J. Xu and D.S. Yu, “Further Examinations of Dendritic Growth Theories”,
J. of Crystal Growth, 222, pp. 399–413, (2001).
7. J.J. Xu and D.S. Yu, “Regular Perturbation Expansion Solution For Generalized Needle Crystal Growth”,
Journal of Crystal Growth, 187, pp. 314–326, (1998).
8. J.J. Xu, “Generalized Needle Solutions, Interfacial Instabilities and Pattern Formations”,
The Physical Review (E), Vol. 53, No: 5, pp. 5051–5062, (1996).
9. J.J. Xu, “Interfacial Instabilities and Fingering Formation in Hele-Shaw Flow”,
IMA Journal of Applied Mathematics, 57, pp. 101–135, (1996).
10. J.J. Xu, “Interfacial Wave Theory for Oscillatory Finger’s Formation in a Hele-Shaw Cell: a Comparison with Experiments”
European Journal of Applied Mathematics, Vol. 7, pp. 169–199, (1996).