

# Sabine Bottin-Rousseau

## List of Publications by Year in descending order

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39  
papers

1,106  
citations

430874

18  
h-index

395702

33  
g-index

39  
all docs

39  
docs citations

39  
times ranked

490  
citing authors

#	ARTICLE	IF	CITATIONS
1	Statistical analysis of the transition to turbulence in plane Couette flow. <i>European Physical Journal B</i> , 1998, 6, 143-155.	1.5	118
2	Discontinuous transition to spatiotemporal intermittency in plane Couette flow. <i>Europhysics Letters</i> , 1998, 43, 171-176.	2.0	112
3	Experimental evidence of streamwise vortices as finite amplitude solutions in transitional plane Couette flow. <i>Physics of Fluids</i> , 1998, 10, 2597-2607.	4.0	97
4	Experimental Evidence for a Zigzag Bifurcation in Bulk Lamellar Eutectic Growth. <i>Physical Review Letters</i> , 2004, 93, 175701.	7.8	69
5	Real-time study of thin and bulk eutectic growth in succinonitrile-(d)camphor alloys. <i>Journal of Crystal Growth</i> , 2007, 299, 418-428.	1.5	57
6	Lamellar eutectic growth with anisotropic interphase boundaries: Experimental study using the rotating directional solidification method. <i>Acta Materialia</i> , 2012, 60, 3206-3214.	7.9	57
7	Interphase anisotropy effects on lamellar eutectics: A numerical study. <i>Physical Review E</i> , 2015, 91, 022407.	2.1	52
8	A theory of thin lamellar eutectic growth with anisotropic interphase boundaries. <i>Acta Materialia</i> , 2012, 60, 3199-3205.	7.9	48
9	Intermittency in a Locally Forced Plane Couette Flow. <i>Physical Review Letters</i> , 1997, 79, 4377-4380.	7.8	47
10	Spiral Two-Phase Dendrites. <i>Physical Review Letters</i> , 2010, 104, 056101.	7.8	38
11	Role of transverse temperature gradients in the generation of lamellar eutectic solidification patterns. <i>Acta Materialia</i> , 2010, 58, 1761-1769.	7.9	35
12	Determination of the Jackson-Hunt constants of the In-Bi eutectic alloy based on in situ observation of its solidification dynamics. <i>Acta Materialia</i> , 2011, 59, 7586-7591.	7.9	34
13	An experimental method for the in situ observation of eutectic growth patterns in bulk samples of transparent alloys. <i>Journal of Crystal Growth</i> , 2007, 306, 465-472.	1.5	29
14	Long-time dynamics of the directional solidification of rodlike eutectics. <i>Physical Review E</i> , 2009, 79, 032602.	2.1	25
15	Advanced Solidification Studies on Transparent Alloy Systems: A New European Solidification Insert for Material Science Glovebox on Board the International Space Station. <i>Jom</i> , 2012, 64, 1097-1101.	1.9	22
16	Influence of morphological instability on grain boundary trajectory during directional solidification. <i>Acta Materialia</i> , 2019, 175, 214-221.	7.9	22
17	Dynamic instabilities of rod-like eutectic growth patterns: A real-time study. <i>Acta Materialia</i> , 2013, 61, 6802-6808.	7.9	20
18	Scaling Theory of Two-Phase Dendritic Growth in Undercooled Ternary Melts. <i>Physical Review Letters</i> , 2014, 112, 105502.	7.8	20

#	ARTICLE	IF	CITATIONS
19	Stability of three-phase ternary-eutectic growth patterns in thin sample. <i>Acta Materialia</i> , 2016, 109, 259-266.	7.9	20
20	Self-Organized Dynamics on a Curved Growth Interface. <i>Physical Review Letters</i> , 2001, 87, 076101.	7.8	17
21	Phase boundary anisotropy and its effects on the maze-to-lamellar transition in a directionally solidified Al-Al <sub>2</sub> Cu eutectic. <i>Acta Materialia</i> , 2019, 170, 268-277.	7.9	17
22	Special interphase orientation relationships and locked lamellar growth in thin In-In <sub>2</sub> Bi eutectics. <i>Acta Materialia</i> , 2018, 150, 16-24.	7.9	16
23	Propagative selection of tilted array patterns in directional solidification. <i>Physical Review Materials</i> , 2018, 2, .	2.4	15
24	Stability of lamellar eutectic growth in thick samples. <i>Philosophical Magazine</i> , 2006, 86, 3703-3715.	1.6	14
25	Dynamical polygonization below the cellular-bifurcation threshold in thin-sample directional solidification. <i>Physical Review B</i> , 2002, 66, .	3.2	13
26	Eutectic solidification patterns: Interest of microgravity environment. <i>Comptes Rendus - Mecanique</i> , 2017, 345, 56-65.	2.1	11
27	Coexistence of rod-like and lamellar eutectic growth patterns. <i>Scripta Materialia</i> , 2022, 207, 114314.	5.2	11
28	Dynamics of rod eutectic growth patterns in confined geometry. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012, 27, 012030.	0.6	9
29	Effects of interphase boundary anisotropy on the three-phase growth dynamics in the $\hat{L}^2(\text{In})-\hat{L}^1(\text{In}_2\text{Bi})-\hat{L}^3(\text{Sn})$ ternary-eutectic system. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 529, 012010.	0.6	9
30	Pulses of tunable size near a subcritical bifurcation. <i>European Physical Journal B</i> , 1998, 5, 299-308.	1.5	8
31	The surface tension force of anisotropic interphase boundaries is perpendicular to the solidification front during eutectic growth. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012, 27, 012088.	0.6	8
32	Locked-lamellar eutectic growth in thin Al-Al <sub>2</sub> Cu samples: In situ directional solidification and crystal orientation analysis. <i>Journal of Crystal Growth</i> , 2021, 570, 126203.	1.5	7
33	Lamellar eutectic growth with anisotropic interphase boundaries. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 84, 012083.	0.6	6
34	Decoupled versus coupled growth dynamics of an irregular eutectic alloy. <i>Scripta Materialia</i> , 2020, 189, 11-15.	5.2	6
35	Curvature induced periodic attractor on growth interface. <i>Chaos</i> , 2004, 14, 882-902.	2.5	5
36	The trajectory of subboundary grooves during directional solidification of dilute alloys. <i>Comptes Rendus Physique</i> , 2013, 14, 149-155.	0.9	5

#	ARTICLE	IF	CITATIONS
37	Numerical Simulations of Locked Lamellar Eutectic Growth Patterns. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 4533-4545.	2.2	4
38	Details on the intermittent transition to turbulence of a locally forced plane Couette flow. Experiments in Fluids, 2003, 34, 324-331.	2.4	2
39	La dynamique de solidification des eutectiques lamellaires : des Ã©chantillons minces aux systÃ©mes massifs. European Physical Journal Special Topics, 2001, 11, Pr6-127-Pr6-134.	0.2	1