# Vladimir Ankudinov

List of Publications by Year
in descending order



| 21 | 207 | 1307594 7 | 1125743 13 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 24 | 24 | 24 | 65 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Structure diagram and dynamics of formation of hexagonal boron nitride in phase-field crystal model. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20200318. | 3.4 | 6 |
| 2 | Numerical Simulation of Thermal Conductivity of Stainless Steel and Al-12Si Powders for Additive Manufacturing. Journal of Heat Transfer, 2022, 144, . | 2.1 | 1 |
| 3 | A review of continuous modeling of periodic pattern formation with modified phase-field crystal models. European Physical Journal: Special Topics, 2022, 231, 1135-1145. | 2.6 | 8 |
| 4 | Correlated noise effect on the structure formation in the phaseâ€field crystal model. Mathematical Methods in the Applied Sciences, 2021, 44, 12185-12193. | 2.3 | 10 |
| 5 | Approximation of correlation functions in phaseâ€field crystal model by machine learning approach. Mathematical Methods in the Applied Sciences, 2021, 44, 12203-12210. | 2.3 | 1 |
| 6 | Bell-shaped â€œdendrite velocity-undercoolingâ€•relationship with an abrupt drop of solidification kinetics in glass forming Cu-Zr(-Ni) melts. Journal of Crystal Growth, 2020, 532, 125411. | 1.5 | 16 |
| 7 | About one unified description of the firstâ€•and secondâ€order phase transitions in the phaseâ€field crystal model. Mathematical Methods in the Applied Sciences, 2020, 44, 12129. | 2.3 | 4 |
| 8 | Numerical simulation of selective laser melting with local powder shrinkage using FEM with the refined mesh. European Physical Journal: Special Topics, 2020, 229, 205-216. | 2.6 | 6 |
| 9 | Growth of different faces in a body centered cubic lattice: A case of the phase-field-crystal modeling. Journal of Crystal Growth, 2020, 539, 125608. | 1.5 | 16 |
| 10 | Traveling waves of the solidification and melting of cubic crystal lattices. Physical Review E, 2020, 102, 062802. | 2.1 | 19 |
| 11 | Kinetics of rapid crystal growth: phase field theory versus atomistic simulations. IOP Conference Series: Materials Science and Engineering, 2019, 529, 012035. | 0.6 | 5 |
| 12 | Crystal structures predicted by the PFC method with atomic density fluctuations. Materials Today: Proceedings, 2019, 11, 118-123. | 1.8 | 2 |
| 13 | Thermodynamics of rapid solidification and crystal growth kinetics in glass-forming alloys. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180205. | 3.4 | 32 |
| 14 | Local non-equilibrium effect on the growth kinetics of crystals. Acta Materialia, 2019, 168, 203-209. | 7.9 | 31 |
| 15 | Simulation of crystalline pattern formation by the MPFC method. MATEC Web of Conferences, 2017, 129, 02035. | 0.2 | 7 |
| 16 | The diagram of phase-field crystal structures: an influence of model parameters in a two-mode approximation. IOP Conference Series: Materials Science and Engineering, 2017, 192, 012019. | 0.6 | 3 |
| 17 | Numerical simulation of heat transfer and melting of Fe-based powders in SLM processing. IOP Conference Series: Materials Science and Engineering, 2017, 192, 012026. | 0.6 | 5 |
| 18 | Atomic density functional and diagram of structures in the phase field crystal model. Journal of Experimental and Theoretical Physics, 2016, 122, 298-309. | 0.9 | 18 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Optimisation of processing parameters in laser sintering of metallic powders. IOP Conference Series: Materials Science and Engineering, 2012, 27, 012079. | 0.6 | 4 |
| 20 | Soft model of solidification with the orderâ€“disorder states competition. Mathematical Methods in the Applied Sciences, 0, , . | 2.3 | 1 |
| 21 | Structural phase-field crystal model for Lennard-Jones pair interaction potential. Modelling and Simulation in Materials Science and Engineering, 0, , . | 2.0 | 0 |