

Joel Berry

List of Publications by Year in descending order

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papers

3,038
citations

516710

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713466

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all docs

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docs citations

21
times ranked

3502
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatiotemporal Control of Intracellular Phase Transitions Using Light-Activated optoDroplets. Cell, 2017, 168, 159-171.e14.	28.9	659
2	Phase-field crystal modeling and classical density functional theory of freezing. Physical Review B, 2007, 75, .	3.2	506
3	Liquid Nuclear Condensates Mechanically Sense and Restructure the Genome. Cell, 2018, 175, 1481-1491.e13.	28.9	490
4	RNA transcription modulates phase transition-driven nuclear body assembly. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E5237-45.	7.1	416
5	Physical principles of intracellular organization via active and passive phase transitions. Reports on Progress in Physics, 2018, 81, 046601.	20.1	319
6	Melting at dislocations and grain boundaries: A phase field crystal study. Physical Review B, 2008, 77, .	3.2	132
7	Simulation of an atomistic dynamic field theory for monatomic liquids: Freezing and glass formation. Physical Review E, 2008, 77, 061506.	2.1	73
8	Defect stability in phase-field crystal models: Stacking faults and partial dislocations. Physical Review B, 2012, 86, .	3.2	59
9	Phase field crystal modeling as a unified atomistic approach to defect dynamics. Physical Review B, 2014, 89, .	3.2	54
10	Large-area epitaxial growth of curvature-stabilized ABC trilayer graphene. Nature Communications, 2020, 11, 546.	12.8	47
11	Modeling Multiple Time Scales during Glass Formation with Phase-Field Crystals. Physical Review Letters, 2011, 106, 175702.	7.8	43
12	Synthesis and Physical Properties of Phase-Engineered Transition Metal Dichalcogenide Monolayer Heterostructures. ACS Nano, 2017, 11, 8619-8627.	14.6	42
13	Dynamic Phase Engineering of Bendable Transition Metal Dichalcogenide Monolayers. Nano Letters, 2017, 17, 2473-2481.	9.1	41
14	Atomistic study of diffusion-mediated plasticity and creep using phase field crystal methods. Physical Review B, 2015, 92, .	3.2	36
15	Domain morphology and mechanics of the H transition metal dichalcogenide monolayers. Physical Review Materials, 2016, 2, .	2.4	18
16	Phase-field-crystal modeling of glass-forming liquids: Spanning time scales during vitrification, aging, and deformation. Physical Review E, 2014, 89, 062303.	2.1	16
17	The MoSeS dynamic omnigami paradigm for smart shape and composition programmable 2D materials. Nature Communications, 2019, 10, 5210.	12.8	15
18	Temperature Measurement of Laser-Irradiated Metals Using Hyperspectral Imaging. Physical Review Applied, 2020, 14, .	3.8	10

#	ARTICLE	IF	CITATIONS
19	From ion to atom to dendrite: Formation and nanomechanical behavior of electrodeposited lithium. MRS Bulletin, 2020, 45, 891-904.	3.5	9
20	Defect-Enabled Phase Programming of Transition Metal Dichalcogenide Monolayers. Nano Letters, 2021, 21, 4676-4683.	9.1	6