

# Joel Berry

## List of Publications by Year in descending order

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20  
papers

3,038  
citations

516710

16  
h-index

713466

21  
g-index

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all docs

21  
docs citations

21  
times ranked

3502  
citing authors

#	ARTICLE	IF	CITATIONS
1	Defect-Enabled Phase Programming of Transition Metal Dichalcogenide Monolayers. Nano Letters, 2021, 21, 4676-4683.	9.1	6
2	From ion to atom to dendrite: Formation and nanomechanical behavior of electrodeposited lithium. MRS Bulletin, 2020, 45, 891-904.	3.5	9
3	Temperature Measurement of Laser-Irradiated Metals Using Hyperspectral Imaging. Physical Review Applied, 2020, 14, .	3.8	10
4	Large-area epitaxial growth of curvature-stabilized ABC trilayer graphene. Nature Communications, 2020, 11, 546.	12.8	47
5	The MoSeS dynamic omnigami paradigm for smart shape and composition programmable 2D materials. Nature Communications, 2019, 10, 5210.	12.8	15
6	Physical principles of intracellular organization via active and passive phase transitions. Reports on Progress in Physics, 2018, 81, 046601.	20.1	319
7	Liquid Nuclear Condensates Mechanically Sense and Restructure the Genome. Cell, 2018, 175, 1481-1491.e13.	28.9	490
8	Domain morphology and mechanics of the $H$ transition metal dichalcogenide monolayers. Physical Review Materials, 2018, 2, .	2.4	18
9	Dynamic Phase Engineering of Bendable Transition Metal Dichalcogenide Monolayers. Nano Letters, 2017, 17, 2473-2481.	9.1	41
10	Spatiotemporal Control of Intracellular Phase Transitions Using Light-Activated optoDroplets. Cell, 2017, 168, 159-171.e14.	28.9	659
11	Synthesis and Physical Properties of Phase-Engineered Transition Metal Dichalcogenide Monolayer Heterostructures. ACS Nano, 2017, 11, 8619-8627.	14.6	42
12	Atomistic study of diffusion-mediated plasticity and creep using phase field crystal methods. Physical Review B, 2015, 92, .	3.2	36
13	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
14	Phase field crystal modeling as a unified atomistic approach to defect dynamics. Physical Review B, 2014, 89, .	3.2	54
15	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
16	Defect stability in phase-field crystal models: Stacking faults and partial dislocations. Physical Review B, 2012, 86, .	3.2	59
17	Modeling Multiple Time Scales during Glass Formation with Phase-Field Crystals. Physical Review Letters, 2011, 106, 175702.	7.8	43
18	Melting at dislocations and grain boundaries: A phase field crystal study. Physical Review B, 2008, 77, .	3.2	132

#	ARTICLE	IF	CITATIONS
19	Simulation of an atomistic dynamic field theory for monatomic liquids: Freezing and glass formation. Physical Review E, 2008, 77, 061506.	2.1	73
20	Phase-field crystal modeling and classical density functional theory of freezing. Physical Review B, 2007, 75, .	3.2	506