

Kevin F Garrity

List of Publications by Year in descending order

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32
papers

3,927
citations

304743

22
h-index

434195

31
g-index

34
all docs

34
docs citations

34
times ranked

6336
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological surface states of Mn_2Bi at finite temperatures and at domain walls. <i>Physical Review Materials</i> , 2021, 5, .		
2	Computational scanning tunneling microscope image database. <i>Scientific Data</i> , 2021, 8, 57.	5.3	15
3	High-throughput search for magnetic topological materials using spin-orbit spillage, machine learning, and experiments. <i>Physical Review B</i> , 2021, 103, .	3.2	22
4	Database of Wannier tight-binding Hamiltonians using high-throughput density functional theory. <i>Scientific Data</i> , 2021, 8, 106.	5.3	20
5	Effects of octahedral tilting on the site of substitution of manganese in $CaTiO_3$. <i>Acta Materialia</i> , 2021, 207, 116688.	7.9	9
6	Magnon-phonon hybridization in 2D antiferromagnet $MnPS_3$. <i>Science Advances</i> , 2021, 7, eabj3106.	10.3	35
7	The joint automated repository for various integrated simulations (JARVIS) for data-driven materials design. <i>Npj Computational Materials</i> , 2020, 6, .	8.7	181
8	Distinct magneto-Raman signatures of spin-flip phase transitions in CrI_3 . <i>Nature Communications</i> , 2020, 11, 3879.	12.8	59
9	Computational search for magnetic and non-magnetic 2D topological materials using unified spin-orbit spillage screening. <i>Npj Computational Materials</i> , 2020, 6, .	8.7	32
10	High-throughput density functional perturbation theory and machine learning predictions of infrared, piezoelectric, and dielectric responses. <i>Npj Computational Materials</i> , 2020, 6, .	8.7	60
11	Data-driven discovery of 3D and 2D thermoelectric materials. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 475501.	1.8	42
12	High-throughput Discovery of Topologically Non-trivial Materials using Spin-orbit Spillage. <i>Scientific Reports</i> , 2019, 9, 8534.	3.3	36
13	Combined cluster and atomic displacement expansion for solid solutions and magnetism. <i>Physical Review B</i> , 2019, 99, .	3.2	5
14	Prediction of Weyl semimetal and antiferromagnetic topological insulator phases in Bi_2MnSe_4 . <i>Npj Computational Materials</i> , 2019, 5, .	8.7	47
15	High-throughput first-principles search for new ferroelectrics. <i>Physical Review B</i> , 2018, 97, .	3.2	33
16	Flux States and Topological Phases from Spontaneous Time-Reversal Symmetry Breaking in $CrSiGe$ Systems. <i>Physical Review Letters</i> , 2016, 117, 257201.	7.8	37
17	Intertwined Rashba, Dirac, and Weyl Fermions in Hexagonal Hyperferroelectrics. <i>Physical Review Letters</i> , 2016, 117, 076401.	7.8	42
18	First-principles search for Mn -type oxide, nitride, and sulfide thermoelectrics. <i>Physical Review B</i> , 2016, 94, .	3.2	39

#	ARTICLE	IF	CITATIONS
19	Reproducibility in density functional theory calculations of solids. <i>Science</i> , 2016, 351, aad3000.	12.6	1,113
20	Chern insulator at a magnetic rocksalt interface. <i>Physical Review B</i> , 2014, 90, .	3.2	47
21	Formation and atomic structure of ordered Sr-induced nanostrips on Ge(100). <i>Physical Review B</i> , 2014, 89, .	3.2	6
22	Wannier center sheets in topological insulators. <i>Physical Review B</i> , 2014, 89, .	3.2	139
23	Hyperferroelectrics: Proper Ferroelectrics with Persistent Polarization. <i>Physical Review Letters</i> , 2014, 112, 127601.	7.8	76
24	Pseudopotentials for high-throughput DFT calculations. <i>Computational Materials Science</i> , 2014, 81, 446-452.	3.0	1,114
25	Antiferroelectricity in thin-film ZrO_2 from first principles. <i>Physical Review B</i> , 2014, 90, .	3.2	205
26	Orthorhombic ABC Semiconductors as Antiferroelectrics. <i>Physical Review Letters</i> , 2013, 110, 017603.	7.8	59
27	Chern Insulators from Heavy Atoms on Magnetic Substrates. <i>Physical Review Letters</i> , 2013, 110, 116802.	7.8	99
28	Growth and interfacial properties of epitaxial oxides on semiconductors: ab initio insights. <i>Journal of Materials Science</i> , 2012, 47, 7417-7438.	3.7	12
29	Hexagonal ABC Semiconductors as Ferroelectrics. <i>Physical Review Letters</i> , 2012, 109, 167602.	7.8	114
30	Crystalline Oxides on Silicon. <i>Advanced Materials</i> , 2010, 22, 2919-2938.	21.0	203
31	Phase transition of Sr on Si (001): First principles prediction and experiment. <i>Surface Science</i> , 2010, 604, 857-861.	1.9	9
32	Effects of Octahedral Tilting on the Site of Substitution of Manganese in $CaTiO_3$. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1