

Maia G Vergniory

List of Publications by Year in descending order

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46
papers

6,126
citations

257450

24
h-index

223800

46
g-index

49
all docs

49
docs citations

49
times ranked

4664
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological materials discovery from crystal symmetry. Nature Reviews Materials, 2022, 7, 196-216.	48.7	65
2	IrRep: Symmetry eigenvalues and irreducible representations of ab initio band structures. Computer Physics Communications, 2022, 272, 108226.	7.5	27
3	Light-Driven Topological and Magnetic Phase Transitions in Thin Layer Antiferromagnets. Journal of Physical Chemistry Letters, 2022, 13, 4152-4158.	4.6	13
4	All topological bands of all nonmagnetic stoichiometric materials. Science, 2022, 376, eabg9094.	12.6	84
5	Energy density as a probe of band representations in photonic crystals. Journal of Physics Condensed Matter, 2022, 34, 314002.	1.8	6
6	Topological Characterization of Photonic Crystals. , 2021, , .		0
7	Band Engineering of Dirac Semimetals Using Charge Density Waves. Advanced Materials, 2021, 33, e2101591.	21.0	32
8	Elementary band representations for the single-particle Green's function of interacting topological insulators. Physical Review B, 2021, 104, .	3.2	7
9	Novel family of topological semimetals with butterflylike nodal lines. Physical Review B, 2021, 104, .	3.2	4
10	Towards a topological quantum chemistry description of correlated systems: The case of the Hubbard diamond chain. Physical Review B, 2021, 104, .	3.2	7
11	Cubic 3D Chern photonic insulators with orientable large Chern vectors. Nature Communications, 2021, 12, 7330.	12.8	18
12	Glide symmetry protected higher-order topological insulators from semimetals with butterfly-like nodal lines. Npj Computational Materials, 2021, 7, .	8.7	3
13	Tutorial: Computing Topological Invariants in 2D Photonic Crystals. Advanced Quantum Technologies, 2020, 3, 1900117.	3.9	63
14	Weyl fermions, Fermi arcs, and minority-spin carriers in ferromagnetic CoS ₂ . Science Advances, 2020, 6, .	10.3	20
15	The Subchalcogenides Ir ₂ In ₈ Q (Q = S, Se, Te): Dirac Semimetal Candidates with Re-entrant Structural Modulation. Journal of the American Chemical Society, 2020, 142, 6312-6323.	13.7	11
16	Observation and control of maximal Chern numbers in a chiral topological semimetal. Science, 2020, 369, 179-183.	12.6	103
17	Signatures of Sixfold Degenerate Exotic Fermions in a Superconducting Metal PdSb ₂ . Advanced Materials, 2020, 32, e1906046.	21.0	36
18	Robustness of topological corner modes in photonic crystals. Physical Review Research, 2020, 2, .	3.6	53

#	ARTICLE	IF	CITATIONS
19	Band structure engineering of chemically tunable LnSbTe (Ln = La, Ce, Pr). <i>APL Materials</i> , 2019, 7, .	5.1	16
20	A New Three-Dimensional Subchalcogenide $\text{Ir}_2\text{In}_8\text{S}$ with Dirac Semimetal Behavior. <i>Journal of the American Chemical Society</i> , 2019, 141, 19130-19137.	13.7	26
21	Chiral topological semimetal with multifold band crossings and long Fermi arcs. <i>Nature Physics</i> , 2019, 15, 759-765.	16.7	184
22	A complete catalogue of high-quality topological materials. <i>Nature</i> , 2019, 566, 480-485.	27.8	721
23	The effect of spin-orbit coupling on nonsymmorphic square-net compounds. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 128, 296-300.	4.0	16
24	Engineering fragile topology in photonic crystals: Topological quantum chemistry of light. <i>Physical Review Research</i> , 2019, 1, .	3.6	62
25	Fractional corner charges in spin-orbit coupled crystals. <i>Physical Review Research</i> , 2019, 1, .	3.6	78
26	Higher-order and crystalline topology in a phenomenological tight-binding model of lead telluride. <i>Physical Review Materials</i> , 2019, 3, .	2.4	8
27	Tunable Weyl and Dirac states in the nonsymmorphic compound CeSbTe. <i>Science Advances</i> , 2018, 4, eaar2317.	10.3	110
28	On the possibility of magnetic Weyl fermions in non-symmorphic compound PtFeSb. <i>European Physical Journal B</i> , 2018, 91, 1.	1.5	8
29	Chiral optical response of multifold fermions. <i>Physical Review B</i> , 2018, 98, .	3.2	118
30	Higher-order topological insulators. <i>Science Advances</i> , 2018, 4, eaat0346.	10.3	1,066
31	Topology of Disconnected Elementary Band Representations. <i>Physical Review Letters</i> , 2018, 120, 266401.	7.8	102
32	Higher-order topology in bismuth. <i>Nature Physics</i> , 2018, 14, 918-924.	16.7	590
33	Double crystallographic groups and their representations on the Bilbao Crystallographic Server. <i>Journal of Applied Crystallography</i> , 2017, 50, 1457-1477.	4.5	177
34	Topological quantum chemistry. <i>Nature</i> , 2017, 547, 298-305.	27.8	947
35	Time-Reversal-Breaking Weyl Fermions in Magnetic Heusler Alloys. <i>Physical Review Letters</i> , 2016, 117, 236401.	7.8	282
36	Beyond Dirac and Weyl fermions: Unconventional quasiparticles in conventional crystals. <i>Science</i> , 2016, 353, aaf5037.	12.6	881

#	ARTICLE	IF	CITATIONS
37	Ab initio quantum transport calculations using plane waves. Progress in Surface Science, 2015, 90, 292-318.	8.3	16
38	Tuning the Dirac Point Position in Bi_2Tl . Physical Review Letters, 2014, 113, 116802.	7.8	4
39	Comment on "Topological Insulators in Ternary Compounds with a Honeycomb Lattice". Physical Review Letters, 2013, 110, 129701.	6.1	13
40	Bulk and surface electronic structure of SnBi_4Te_7 topological insulator. Applied Surface Science, 2013, 267, 146-149.	2.9	65
41	The effect of van der Waal's gap expansions on the surface electronic structure of layered topological insulators. New Journal of Physics, 2012, 14, 113030.	3.3	22
42	Molecular conductivity switching of two benzene rings under electric field. Applied Physics Letters, 2010, 97, 262114.	3.0	6
43	Calculation of complex band structure for plane-wave nonlocal pseudopotential Hamiltonian. Computational Materials Science, 2010, 48, 544-550.	1.8	2
44	Theory of inelastic lifetimes of surface-state electrons and holes at metal surfaces. Journal of Physics Condensed Matter, 2008, 20, 304207.	3.0	6
45	First determination of the NO_2 stretching frequencies by jet cooled intracavity laser absorption spectroscopy around $11\text{ }\mu\text{m}$. Journal of Chemical Physics, 2003, 119, 2590-2595.	1.2	0
46	Transport and optical properties of the chiral semiconductor Ag_3AuSe_2 . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 0, , .		