

Maia G Vergniory

List of Publications by Year in descending order

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Version: 2024-02-01

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	Higher-order topological insulators. <i>Science Advances</i> , 2018, 4, eaat0346.	10.3	1,066
2	Topological quantum chemistry. <i>Nature</i> , 2017, 547, 298-305.	27.8	947
3	Beyond Dirac and Weyl fermions: Unconventional quasiparticles in conventional crystals. <i>Science</i> , 2016, 353, aaf5037.	12.6	881
4	A complete catalogue of high-quality topological materials. <i>Nature</i> , 2019, 566, 480-485.	27.8	721
5	Higher-order topology in bismuth. <i>Nature Physics</i> , 2018, 14, 918-924.	16.7	590
6	Time-Reversal-Breaking Weyl Fermions in Magnetic Heusler Alloys. <i>Physical Review Letters</i> , 2016, 117, 236401.	7.8	282
7	Chiral topological semimetal with multifold band crossings and long Fermi arcs. <i>Nature Physics</i> , 2019, 15, 759-765.	16.7	184
8	Double crystallographic groups and their representations on the Bilbao Crystallographic Server. <i>Journal of Applied Crystallography</i> , 2017, 50, 1457-1477.	4.5	177
9	Chiral optical response of multifold fermions. <i>Physical Review B</i> , 2018, 98, .	3.2	118
10	Tunable Weyl and Dirac states in the nonsymmorphic compound CeSbTe. <i>Science Advances</i> , 2018, 4, eaar2317.	10.3	110
11	Observation and control of maximal Chern numbers in a chiral topological semimetal. <i>Science</i> , 2020, 369, 179-183.	12.6	103
12	Topology of Disconnected Elementary Band Representations. <i>Physical Review Letters</i> , 2018, 120, 266401.	7.8	102
13	All topological bands of all nonmagnetic stoichiometric materials. <i>Science</i> , 2022, 376, eabg9094.	12.6	84
14	Fractional corner charges in spin-orbit coupled crystals. <i>Physical Review Research</i> , 2019, 1, .	3.6	78
15	The effect of van der Waal's gap expansions on the surface electronic structure of layered topological insulators. <i>New Journal of Physics</i> , 2012, 14, 113030.	2.9	65
16	Topological materials discovery from crystal symmetry. <i>Nature Reviews Materials</i> , 2022, 7, 196-216.	48.7	65
17	Tutorial: Computing Topological Invariants in 2D Photonic Crystals. <i>Advanced Quantum Technologies</i> , 2020, 3, 1900117.	3.9	63
18	Engineering fragile topology in photonic crystals: Topological quantum chemistry of light. <i>Physical Review Research</i> , 2019, 1, .	3.6	62

#	ARTICLE	IF	CITATIONS
19	Robustness of topological corner modes in photonic crystals. <i>Physical Review Research</i> , 2020, 2, .	3.6	53
20	Tuning the Dirac Point Position in Bi_2Te_3 . <i>Physical Review Letters</i> , 2014, 113, 116802.	4.1	41
21	Signatures of Sixfold Degenerate Exotic Fermions in a Superconducting Metal PdSb_2 . <i>Advanced Materials</i> , 2020, 32, e1906046.	21.0	36
22	Band Engineering of Dirac Semimetals Using Charge Density Waves. <i>Advanced Materials</i> , 2021, 33, e2101591.	21.0	32
23	IrRep: Symmetry eigenvalues and irreducible representations of ab initio band structures. <i>Computer Physics Communications</i> , 2022, 272, 108226.	7.5	27
24	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
25	Molecular conductivity switching of two benzene rings under electric field. <i>Applied Physics Letters</i> , 2010, 97, 262114.	3.3	22
26	Weyl fermions, Fermi arcs, and minority-spin carriers in ferromagnetic CoS_2 . <i>Science Advances</i> , 2020, 6, .	10.3	20
27	Cubic 3D Chern photonic insulators with orientable large Chern vectors. <i>Nature Communications</i> , 2021, 12, 7330.	12.8	18
28	Ab initio quantum transport calculations using plane waves. <i>Progress in Surface Science</i> , 2015, 90, 292-318.	8.3	16
29	Band structure engineering of chemically tunable LnSbTe ($\text{Ln} = \text{La, Ce, Pr}$). <i>APL Materials</i> , 2019, 7, .	5.1	16
30	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
31	Bulk and surface electronic structure of SnBi_4Te_7 topological insulator. <i>Applied Surface Science</i> , 2013, 267, 146-149.	6.1	13
32	Light-Driven Topological and Magnetic Phase Transitions in Thin Layer Antiferromagnets. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 4152-4158.	4.6	13
33	The Subchalcogenides $\text{Ir}_2\text{In}_8\text{Q}$ ($\text{Q} = \text{S, Se, Te}$): Dirac Semimetal Candidates with Re-entrant Structural Modulation. <i>Journal of the American Chemical Society</i> , 2020, 142, 6312-6323.	13.7	11
34	On the possibility of magnetic Weyl fermions in non-symmorphic compound PtFeSb . <i>European Physical Journal B</i> , 2018, 91, 1.	1.5	8
35	Higher-order and crystalline topology in a phenomenological tight-binding model of lead telluride. <i>Physical Review Materials</i> , 2019, 3, .	2.4	8
36	Elementary band representations for the single-particle Green's function of interacting topological insulators. <i>Physical Review B</i> , 2021, 104, .	3.2	7

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37	Towards a topological quantum chemistry description of correlated systems: The case of the Hubbard diamond chain. <i>Physical Review B</i> , 2021, 104, .	3.2	7
38	First determination of the NO ₂ $\tilde{\nu}_2$ stretching frequencies by jet cooled intracavity laser absorption spectroscopy around 11 μm . <i>Journal of Chemical Physics</i> , 2003, 119, 2590-2595.	3.0	6
39	Calculation of complex band structure for plane-wave nonlocal pseudopotential Hamiltonian. <i>Computational Materials Science</i> , 2010, 48, 544-550.	3.0	6
40	Energy density as a probe of band representations in photonic crystals. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 314002.	1.8	6
41	Comment on "Topological Insulators in Ternary Compounds with a Honeycomb Lattice". <i>Physical Review Letters</i> , 2013, 110, 129701.	7.8	4
42	Novel family of topological semimetals with butterflylike nodal lines. <i>Physical Review B</i> , 2021, 104, .	3.2	4
43	Glide symmetry protected higher-order topological insulators from semimetals with butterfly-like nodal lines. <i>Npj Computational Materials</i> , 2021, 7, .	8.7	3
44	Theory of inelastic lifetimes of surface-state electrons and holes at metal surfaces. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 304207.	1.8	2
45	Topological Characterization of Photonic Crystals. , 2021, , .		0
46	Transport and optical properties of the chiral semiconductor Ag ₃ AuSe ₂ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 0, , .	1.2	0