Claudia Felser

List of Publications by Citations

814 papers	38,980 citations	89 h-index	169 g-index
893 ext. papers	47,744 ext. citations	7.3 avg, IF	7.78 L-index

#	Paper	IF	Citations
814	Simple rules for the understanding of Heusler compounds. *Progress in Solid State Chemistry*, **2011**, 39, 1-50	8	1341
813	Electronic and magnetic phase diagram of beta-Fe(1.01)Se with superconductivity at 36.7 K under pressure. *Nature Materials*, **2009**, 8, 630-3	27	852
812	Spintronics: a challenge for materials science and solid-state chemistry. *Angewandte Chemie - International Edition*, **2007**, 46, 668-99	16.4	793
811	Extremely large magnetoresistance and ultrahigh mobility in the topological Weyl semimetal candidate NbP. *Nature Physics*, **2015**, 11, 645-649	16.2	686
810	Tunable multifunctional topological insulators in ternary Heusler compounds. *Nature Materials*, **2010**, 9, 541-5	27	674
809	Grammatical processing in language learners. *Applied Psycholinguistics*, **2006**, 27, 3-42	1.4	674
808	Topological Materials: Weyl Semimetals. *Annual Review of Condensed Matter Physics*, **2017**, 8, 337-354	19.7	659
807	Weyl semimetal phase in the non-centrosymmetric compound TaAs. *Nature Physics*, **2015**, 11, 728-732	16.2	649
806	Calculated electronic and magnetic properties of the half-metallic, transition metal based Heusler compounds. *Journal Physics D: Applied Physics*, **2007**, 40, 1507-1523	3	619
805	Beyond Dirac and Weyl fermions: Unconventional quasiparticles in conventional crystals. *Science*, **2016**, 353, aaf5037	33.3	601
804	Topological quantum chemistry. *Nature*, **2017**, 547, 298-305	50.4	537
803	Extreme sensitivity of superconductivity to stoichiometry in Fe1+δSe. *Physical Review B*, **2009**, 79,	3.3	530
802	Superconductivity in Weyl semimetal candidate MoTe2. *Nature Communications*, **2016**, 7, 11038	17.4	442
801	Giant anomalous Hall effect in a ferromagnetic Kagome-lattice semimetal. *Nature Physics*, **2018**, 14, 1125-1131	16.1	440
800	Geometric, electronic, and magnetic structure of Co2FeSi: Curie temperature and magnetic moment measurements and calculations. *Physical Review B*, **2005**, 72,	3.3	419
799	Prediction of Weyl semimetal in orthorhombic MoTe2. *Physical Review B*, **2015**, 92,	3.3	414
798	A complete catalogue of high-quality topological materials. *Nature*, **2019**, 566, 480-485	50.4	390

797	Tetragonal-to-orthorhombic structural phase transition at 90 K in the superconductor Fe(1.01)Se. *Physical Review Letters*, **2009**, 103, 057002	7.4	371
796	Large anomalous Hall effect driven by a nonvanishing Berry curvature in the noncolinear antiferromagnet Mn3Ge. *Science Advances*, **2016**, 2, e1501870	14.3	345
795	Magnetic antiskyrmions above room temperature in tetragonal Heusler materials. *Nature*, **2017**, 548, 561-566	50.4	344
794	Realization of spin gapless semiconductors: the Heusler compound Mn2CoAl. *Physical Review Letters*, **2013**, 110, 100401	7.4	339
793	Investigation of Co2FeSi: The Heusler compound with highest Curie temperature and magnetic moment. *Applied Physics Letters*, **2006**, 88, 032503	3.4	322
792	Mn3Ga, a compensated ferrimagnet with high Curie temperature and low magnetic moment for spin torque transfer applications. *Applied Physics Letters*, **2007**, 90, 152504	3.4	303
791	Negative magnetoresistance without well-defined chirality in the Weyl semimetal TaP. *Nature Communications*, **2016**, 7, 11615	17.4	301
790	Signature of type-II Weyl semimetal phase in MoTe. *Nature Communications*, **2017**, 8, 13973	17.4	273
789	Half-Heusler compounds: novel materials for energy and spintronic applications. *Semiconductor Science and Technology*, **2012**, 27, 063001	1.8	255
788	Engineering half-Heusler thermoelectric materials using Zintl chemistry. *Nature Reviews Materials*, **2016**, 1,	73.3	248
787	Direct observation of half-metallicity in the Heusler compound Co2MnSi. *Nature Communications*, **2014**, 5, 3974	17.4	247
786	Properties of the quaternary half-metal-type Heusler alloy Co2Mn1−xFexSi. *Physical Review B*, **2006**, 74,	3.3	244
785	Magnetic Weyl semimetal phase in a Kagomé crystal. *Science*, **2019**, 365, 1282-1285	33.3	238
784	Linear magnetoresistance caused by mobility fluctuations in n-doped Cd(3)As(2). *Physical Review Letters*, **2015**, 114, 117201	7.4	237
783	Understanding the trend in the Curie temperatures of Co2-based Heusler compounds: Ab initio calculations. *Physical Review B*, **2007**, 76,	3.3	231
782	Dysprosium room-temperature ionic liquids with strong luminescence and response to magnetic fields. *Angewandte Chemie - International Edition*, **2008**, 47, 7635-8	16.4	223
781	Fermi-arc diversity on surface terminations of the magnetic Weyl semimetal CoSnS. *Science*, **2019**, 365, 1286-1291	33.3	222
780	High-mobility band-like charge transport in a semiconducting two-dimensional metal-organic framework. *Nature Materials*, **2018**, 17, 1027-1032	27	216

779	Covalent bonding and the nature of band gaps in some half-Heusler compounds. *Journal Physics D: Applied Physics*, **2006**, 39, 776-785	3	215
778	How native-like is non-native language processing?. *Trends in Cognitive Sciences*, **2006**, 10, 564-70	14	212
777	Structural, electronic, and magnetic properties of tetragonal Mn3Ga: Experiments and first-principles calculations. *Physical Review B*, **2008**, 77,	3.3	211
776	Correlation in the transition-metal-based Heusler compounds Co2MnSi and Co2FeSi. *Physical Review B*, **2006**, 73,	3.3	211
775	Evolution of the Fermi surface of Weyl semimetals in the transition metal pnictide family. *Nature Materials*, **2016**, 15, 27-31	27	202
774	Design of compensated ferrimagnetic Heusler alloys for giant tunable exchange bias. *Nature Materials*, **2015**, 14, 679-84	27	196
773	Discovery of topological Weyl fermion lines and drumhead surface states in a room temperature magnet. *Science*, **2019**, 365, 1278-1281	33.3	187
772	Quaternary half-metallic Heusler ferromagnets for spintronics applications. *Physical Review B*, **2011**, 83,	3.3	187
771	Large negative magnetoresistance effects in Co2Cr0.6Fe0.4Al. *Journal of Solid State Chemistry*, **2003**, 176, 646-651	3.3	184
770	Valence electron rules for prediction of half-metallic compensated-ferrimagnetic behaviour of Heusler compounds with complete spin polarization. *Journal of Physics Condensed Matter*, **2006**, 18, 6171-6181	1.8	183
769	Electronic, structural, and magnetic properties of the half-metallic ferromagnetic quaternary Heusler compounds CoFeMnZ (Z=Al, Ga, Si, Ge). *Physical Review B*, **2011**, 84,	3.3	182
768	Design scheme of new tetragonal Heusler compounds for spin-transfer torque applications and its experimental realization. *Advanced Materials*, **2012**, 24, 6283-7	24	178
767	Non-collinear antiferromagnets and the anomalous Hall effect. *Europhysics Letters*, **2014**, 108, 67001	1.6	177
766	Slater-Pauling rule and Curie temperature of Co2-based Heusler compounds. *Journal of Applied Physics*, **2006**, 99, 08J106	2.5	166
765	Experimental signatures of the mixed axial-gravitational anomaly in the Weyl semimetal NbP. *Nature*, **2017**, 547, 324-327	50.4	161
764	New quarternary half metallic material CoFeMnSi. *Journal of Applied Physics*, **2009**, 105, 07E901	2.5	159
763	Different look at the spin state of Co(3+) ions in a CoO(5) pyramidal coordination. *Physical Review Letters*, **2004**, 92, 207402	7.4	155
762	Large zero-field cooled exchange-bias in bulk Mn2PtGa. *Physical Review Letters*, **2013**, 110, 127204	7.4	148

761	Substituting the main group element in cobalt□ron based Heusler alloys: Co2FeAl1□Six. *Journal Physics D: Applied Physics*, **2007**, 40, 1582-1586	3	145
760	A coronene-based semiconducting two-dimensional metal-organic framework with ferromagnetic behavior. *Nature Communications*, **2018**, 9, 2637	17.4	140
759	GAPS IN SECOND LANGUAGE SENTENCE PROCESSING. *Studies in Second Language Acquisition*, **2005**, 27,	3.1	129
758	Topological insulators and thermoelectric materials. *Physica Status Solidi - Rapid Research Letters*, **2013**, 7, 91-100	2.5	127
757	Heusler Compounds□A Material Class With Exceptional Properties. *IEEE Transactions on Magnetics*, **2011**, 47, 367-373	2	127
756	Topological chiral crystals with helicoid-arc quantum states. *Nature*, **2019**, 567, 500-505	50.4	126
755	I-II-V half-Heusler compounds for optoelectronics: Ab initio calculations. *Physical Review B*, **2010**, 81,	3.3	125
754	Morphological Structure in Native and Nonnative Language Processing. *Language Learning*, **2010**, 60, 21-43	5.1	124
753	Heusler, Weyl and Berry. *Nature Reviews Materials*, **2018**, 3, 244-256	73.3	123
752	Rational design of new materials for spintronics: CoFe (=Al, Ga, Si, Ge). *Science and Technology of Advanced Materials*, **2008**, 9, 014102	7.1	123
751	Element-specific magnetic moments from core-absorption magnetic circular dichroism of the doped Heusler alloy Co2Cr0.6Fe0.4Al. *Physical Review B*, **2003**, 67,	3.3	123
750	A large-energy-gap oxide topological insulator based on the superconductor BaBiO3. *Nature Physics*, **2013**, 9, 709-711	16.2	121
749	Electronic structure and spectroscopy of the quaternary Heusler alloy Co2Cr1□FexAl. *Journal Physics D: Applied Physics*, **2006**, 39, 803-815	3	121
748	Basics and prospective of magnetic Heusler compounds. *APL Materials*, **2015**, 3, 041518	5.7	118
747	Strong anisotropic anomalous Hall effect and spin Hall effect in the chiral antiferromagnetic compounds Mn3X (X=Ge, Sn, Ga, Ir, Rh, and Pt). *Physical Review B*, **2017**, 95,	3.3	117
746	Topological states on the gold surface. *Nature Communications*, **2015**, 6, 10167	17.4	114
745	Extremely high magnetoresistance and conductivity in the type-II Weyl semimetals WP and MoP. *Nature Communications*, **2017**, 8, 1642	17.4	111
744	Crystal Structure of New Heusler Compounds. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2009**, 635, 976-981	1.3	109

743	Weyl Semimetals as Hydrogen Evolution Catalysts. *Advanced Materials*, **2017**, 29, 1606202	24	107
742	Processing wh-dependencies in a second language: a cross-modal priming study. *Second Language Research*, **2007**, 23, 9-36	2.3	103
741	Graphene-based topological insulator with an intrinsic bulk band gap above room temperature. *Nano Letters*, **2013**, 13, 6251-5	11.5	102
740	Topological surface Fermi arcs in the magnetic Weyl semimetal Co3Sn2S2. *Physical Review B*, **2018**, 97,	3.3	102
739	Double crystallographic groups and their representations on the Bilbao Crystallographic Server. *Journal of Applied Crystallography*, **2017**, 50, 1457-1477	3.8	101
738	Enhanced thermoelectric performance in the p-type half-Heusler (Ti/Zr/Hf)CoSb0.8Sn0.2 system via phase separation. *Physical Chemistry Chemical Physics*, **2014**, 16, 25258-62	3.6	101
737	Element-specific magnetic moments and spin-resolved density of states in CoFeMnZ (Z=Al, Ga; Si, Ge). *Physical Review B*, **2011**, 84,	3.3	99
736	Chiral topological semimetal with multifold band crossings and long Fermi arcs. *Nature Physics*, **2019**, 15, 759-765	16.2	98
735	Strong Intrinsic Spin Hall Effect in the TaAs Family of Weyl Semimetals. *Physical Review Letters*, **2016**, 117, 146403	7.4	98
734	Phase separation in superconducting and antiferromagnetic Rb0.8Fe1.6Se2 probed by M□ssbauer spectroscopy. *Physical Review B*, **2011**, 84,	3.3	96
733	Itinerant half-metallic ferromagnets Co2TiZ (Z=Si, Ge, Sn): Ab initio calculations and measurement of the electronic structure and transport properties. *Physical Review B*, **2010**, 81,	3.3	95
732	Storage and integration in the processing of filler-gap dependencies: an ERP study of topicalization and wh-movement in German. *Brain and Language*, **2003**, 87, 345-54	2.9	95
731	Dirac line nodes and effect of spin-orbit coupling in the nonsymmorphic critical semimetals MSiS(M=Hf,Zr). *Physical Review B*, **2017**, 95,	3.3	93
730	Anomalous Nernst effect beyond the magnetization scaling relation in the ferromagnetic Heusler compound Co2MnGa. *NPG Asia Materials*, **2019**, 11,	10.3	93
729	Building blocks of topological quantum chemistry: Elementary band representations. *Physical Review B*, **2018**, 97,	3.3	90
728	Electronic transport properties of electron- and hole-doped semiconducting C1b Heusler compounds: NiTi1□MxSn (M=Sc,V). *Physical Review B*, **2010**, 82,	3.3	90
727	Large noncollinearity and spin reorientation in the novel Mn2RhSn Heusler magnet. *Physical Review Letters*, **2014**, 113, 087203	7.4	89
726	Superconductivity in the Heusler family of intermetallics. *Physical Review B*, **2012**, 85,	3.3	88

725	New Family of Quantum Spin Hall Insulators in Two-dimensional Transition-Metal Halide with Large Nontrivial Band Gaps. *Nano Letters*, **2015**, 15, 7867-72	11.5	87
724	Planar Hall effect in the Weyl semimetal GdPtBi. *Physical Review B*, **2018**, 98,	3.3	87
723	Magnetism in cubic manganese-rich Heusler compounds. *Physical Review B*, **2014**, 90,	3.3	87
722	Structural characterization of the Co2FeZ (Z=Al, Si, Ga, and Ge) Heusler compounds by x-ray diffraction and extended x-ray absorption fine structure spectroscopy. *Applied Physics Letters*, **2007**, 90, 172501	3.4	86
721	Design of magnetic materials: the electronic structure of the ordered, doped Heusler compound Co2Cr1−xFexAl. *Journal of Physics Condensed Matter*, **2005**, 17, 7237-7252	1.8	86
720	LMTO Band Structure Calculations of ThCr2Si2-Type Transition Metal Compounds. *Journal of Solid State Chemistry*, **1997**, 130, 254-265	3.3	85
719	Zero-Field Nernst Effect in a Ferromagnetic Kagome-Lattice Weyl-Semimetal Co Sn S. *Advanced Materials*, **2019**, 31, e1806622	24	84
718	Synergistic modulation of mobility and thermal conductivity in (Bi,Sb)2Te3 towards high thermoelectric performance. *Energy and Environmental Science*, **2019**, 12, 624-630	35.4	82
717	Spin-Polarized Current in Noncollinear Antiferromagnets. *Physical Review Letters*, **2017**, 119, 187204	7.4	82
716	Efficient spin injector scheme based on Heusler materials. *Physical Review Letters*, **2011**, 107, 047202	7.4	80
715	Carbon-Tailored Semimetal MoP as an Efficient Hydrogen Evolution Electrocatalyst in Both Alkaline and Acid Media. *Advanced Energy Materials*, **2018**, 8, 1801258	21.8	80
714	Lattice instability and competing spin structures in the double perovskite insulator Sr2FeOsO6. *Physical Review Letters*, **2013**, 111, 167205	7.4	79
713	Heusler 4.0: Tunable Materials. *Annual Review of Materials Research*, **2017**, 47, 247-270	12.8	79
712	Topological insulators from a chemist's perspective. *Angewandte Chemie - International Edition*, **2012**, 51, 7221-5	16.4	78
711	SOME NOTES ON THE SHALLOW STRUCTURE HYPOTHESIS. *Studies in Second Language Acquisition*, **2018**, 40, 693-706	3.1	77
710	Topological insulators in ternary compounds with a honeycomb lattice. *Physical Review Letters*, **2011**, 106, 156402	7.4	77
709	Observation of unusual topological surface states in half-Heusler compounds LnPtBi (Ln=Lu, Y). *Nature Communications*, **2016**, 7, 12924	17.4	77
708	Thermal and electrical signatures of a hydrodynamic electron fluid in tungsten diphosphide. *Nature Communications*, **2018**, 9, 4093	17.4	77

707	Resolving the true band gap of ZrNiSn half-Heusler thermoelectric materials. *Materials Horizons*, **2015**, 2, 68-75	14.4	76
706	Actinide topological insulator materials with strong interaction. *Science*, **2012**, 335, 1464-6	33.3	76
705	Electronic structures and instabilities of ZrNCl and HfNCl: implications for superconductivity in the doped compounds. *Journal of Materials Chemistry*, **1999**, 9, 459-464		76
704	Multiple Dirac cones at the surface of the topological metal LaBi. *Nature Communications*, **2017**, 8, 13942	17.4	75
703	Giant Negative Magnetoresistance in GdI2: Prediction and Realization. *Journal of Solid State Chemistry*, **1999**, 147, 19-25	3.3	75
702	High-throughput calculations of magnetic topological materials. *Nature*, **2020**, 586, 702-707	50.4	75
701	Axionic charge-density wave in the Weyl semimetal (TaSe)I. *Nature*, **2019**, 575, 315-319	50.4	75
700	Visualizing weakly bound surface Fermi arcs and their correspondence to bulk Weyl fermions. *Science Advances*, **2016**, 2, e1600709	14.3	74
699	Robust 2D topological insulators in van der Waals heterostructures. *ACS Nano*, **2014**, 8, 10448-54	16.7	74
698	Prediction of weak topological insulators in layered semiconductors. *Physical Review Letters*, **2012**, 109, 116406	7.4	74
697	Electrical and Optical Properties of Sb-Doped BaSnO3. *Chemistry of Materials*, **2013**, 25, 3858-3866	9.6	73
696	Electronic structure studies of BaFe2As2 by angle-resolved photoemission spectroscopy. *Physical Review B*, **2009**, 79,	3.3	72
695	Superconductivity in palladium-based Heusler compounds. *Physical Review B*, **2009**, 79,	3.3	71
694	Dirac nodal lines and induced spin Hall effect in metallic rutile oxides. *Physical Review B*, **2017**, 95,	3.3	70
693	Observation of pseudo-two-dimensional electron transport in the rock salt-type topological semimetal LaBi. *Physical Review B*, **2016**, 93,	3.3	69
692	Weyl points in the ferromagnetic Heusler compound Co 2 MnAl. *Europhysics Letters*, **2016**, 114, 47005	1.6	69
691	Electronic properties of ZrTe3. *Journal of Materials Chemistry*, **1998**, 8, 1787-1798		69
690	Epitaxial film growth and magnetic properties of Co2FeSi. *Physical Review B*, **2006**, 74,	3.3	68

689	Magnetism in tetragonal manganese-rich Heusler compounds. *Physical Review B*, **2015**, 92,	3.3	67
688	Topology of Disconnected Elementary Band Representations. *Physical Review Letters*, **2018**, 120, 266401	7.4	67
687	Thermoelectric properties of spark plasma sintered composites based on TiNiSn half-Heusler alloys. *Journal of Materials Research*, **2011**, 26, 1919-1924	2.5	66
686	Tailoring the electronic structure of half-metallic Heusler alloys. *Physical Review B*, **2009**, 80,	3.3	66
685	Magnetic and electronic properties of double perovskites and estimation of their Curie temperatures by ab initio calculations. *Physical Review B*, **2008**, 78,	3.3	66
684	Electronic structure, magnetism and disorder in the Heusler compound Co2TiSn. *Journal Physics D: Applied Physics*, **2007**, 40, 1587-1592	3	66
683	Large Magnetization and Reversible Magnetocaloric Effect at the Second-Order Magnetic Transition in Heusler Materials. *Advanced Materials*, **2016**, 28, 3321-5	24	66
682	Lanthanide Contraction as a Design Factor for High-Performance Half-Heusler Thermoelectric Materials. *Advanced Materials*, **2018**, 30, e1800881	24	66
681	Graph theory data for topological quantum chemistry. *Physical Review E*, **2017**, 96, 023310	2.4	65
680	Seebeck coefficients of half-metallic ferromagnets. *Solid State Communications*, **2010**, 150, 529-532	1.6	65
679	Berry curvature and the anomalous Hall effect in Heusler compounds. *Physical Review B*, **2012**, 85,	3.3	64
678	Huge quadratic magneto-optical Kerr effect and magnetization reversal in the Co2FeSi Heusler compound. *Journal Physics D: Applied Physics*, **2007**, 40, 1563-1569	3	64
677	Antecedent priming at trace positions in children's sentence processing. *Journal of Psycholinguistic Research*, **2007**, 36, 175-88	1	64
676	Surface states in bulk single crystal of topological semimetal CoSnS toward water oxidation. *Science Advances*, **2019**, 5, eaaw9867	14.3	63
675	The metal-insulator transition in Fe(1.01-x)Cu(x)Se. *Journal of Physics Condensed Matter*, **2009**, 21, 305701	1.8	63
674	Metallic n-Type Mg Sb Single Crystals Demonstrate the Absence of Ionized Impurity Scattering and Enhanced Thermoelectric Performance. *Advanced Materials*, **2020**, 32, e1908218	24	62
673	Electronic structure and transport properties of the Heusler compound Co2TiAl. *Journal Physics D: Applied Physics*, **2009**, 42, 084003	3	62
672	Electrically tuneable nonlinear anomalous Hall effect in two-dimensional transition-metal dichalcogenides WTe 2 and MoTe 2. *2D Materials*, **2018**, 5, 044001	5.9	61

671	Anomalous Hall effect in Weyl semimetal half-Heusler compounds RPtBi (R = Gd and Nd). *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 9140-9144	11.5	61
670	Magnetic and structural properties of the double-perovskite Ca2FeReO6. *Solid State Communications*, **2002**, 122, 201-206	1.6	61
669	Chiral Weyl Pockets and Fermi Surface Topology of the Weyl Semimetal TaAs. *Physical Review Letters*, **2016**, 117, 146401	7.4	61
668	Tuning the magnetism of the Heusler alloys Mn3−xCoxGa from soft and half-metallic to hard-magnetic for spin-transfer torque applications. *Applied Physics Letters*, **2011**, 99, 222510	3.4	60
667	Termination layer compensated tunnelling magnetoresistance in ferrimagnetic Heusler compounds with high perpendicular magnetic anisotropy. *Nature Communications*, **2016**, 7, 10276	17.4	59
666	Direct measurements of the magnetocaloric effect in pulsed magnetic fields: The example of the Heusler alloy Ni50Mn35In15. *Applied Physics Letters*, **2015**, 106, 071904	3.4	58
665	Investigation of a novel material for magnetoelectronics: Co2Cr0.6Fe0.4Al. *Journal of Physics Condensed Matter*, **2003**, 15, 7019-7027	1.8	58
664	Field dependence of orbital magnetic moments in the Heusler compounds Co2FeAl and Co2Cr0.6Fe0.4Al. *Applied Physics A: Materials Science and Processing*, **2004**, 79, 557-563	2.6	57
663	Metal−Metal Bonding and Metallic Behavior in Some ABO2 Delafossites. *Chemistry of Materials*, **1998**, 10, 2189-2196	9.6	57
662	Prediction of Triple Point Fermions in Simple Half-Heusler Topological Insulators. *Physical Review Letters*, **2017**, 119, 136401	7.4	56
661	Quantum oscillations and the Fermi surface topology of the Weyl semimetal NbP. *Physical Review B* , **2016**, 93,	3.3	56
660	Structural and magnetic properties of Co2FeAl1−xSix. *Applied Physics Letters*, **2007**, 90, 242503	3.4	56
659	Spin polarization of magnetoresistive materials by point contact spectroscopy. *Physical Review B*, **2003**, 68,	3.3	56
658	Chiral magnetoresistance in the Weyl semimetal NbP. *Scientific Reports*, **2017**, 7, 43394	4.9	55
657	A nondestructive analysis of the B diffusion in Ta□CoFeB□MgO□CoFeB□Ta magnetic tunnel junctions by hard x-ray photoemission. *Applied Physics Letters*, **2010**, 96, 072105	3.4	55
656	Electron correlations in Co2Mn1−xFexSi Heusler compounds. *Journal Physics D: Applied Physics*, **2009**, 42, 084002	3	55
655	Supraleitung in Seltenerdmetall-Carbidhalogeniden des Typs SE2X2C2. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **1996**, 622, 123-137	1.3	54
654	New Mn2-based Heusler Compounds. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2014**, 640, 738-752	1.3	53

653	Topological insulators in filled skutterudites. *Physical Review B*, **2012**, 85,	3.3	53
652	Topological semimetal in a Bi-Bi2Se3 infinitely adaptive superlattice phase. *Physical Review B*, **2012**, 86,	3.3	53
651	Metal-insulator transition and the anomalous Hall effect in the layered magnetic materials VS2 and VSe2. *New Journal of Physics*, **2016**, 18, 113038	2.9	53
650	Exploring Co2MnAl Heusler compound for anomalous Hall effect sensors. *Applied Physics Letters*, **2011**, 99, 132509	3.4	52
649	Crystal and electronic structures of ScAuGe, CeAuGe, and LuAuGe: a transition from two- to three-dimensional [AuGe] polyanions. *Journal of Alloys and Compounds*, **1996**, 235, 170-175	5.7	52
648	Magnetometry of buried layers□linear magnetic dichroism and spin detection in angular resolved hard X-ray photoelectron spectroscopy. *Journal of Electron Spectroscopy and Related Phenomena*, **2012**, 185, 47-52	1.7	51
647	Large anomalous Nernst effect in thin films of the Weyl semimetal Co2MnGa. *Applied Physics Letters*, **2018**, 113, 212405	3.4	51
646	Iron-based Heusler compounds Fe2YZ: Comparison with theoretical predictions of the crystal structure and magnetic properties. *Physical Review B*, **2013**, 87,	3.3	50
645	Enhancing Thermoelectric Performance of TiNiSn Half-Heusler Compounds via Modulation Doping. *Chemistry of Materials*, **2017**, 29, 7042-7048	9.6	50
644	First-principles study of the structural stability of cubic, tetragonal and hexagonal phases in Mn□ (Z=Ga, Sn and Ge) Heusler compounds. *Journal of Physics Condensed Matter*, **2013**, 25, 206006	1.8	50
643	Dysprosium-Based Ionic Liquid Crystals: Thermal, Structural, Photo- and Magnetophysical Properties. *Crystal Growth and Design*, **2009**, 9, 4429-4437	3.5	50
642	Fine tuning of thermoelectric performance in phase-separated half-Heusler compounds. *Journal of Materials Chemistry C*, **2015**, 3, 10409-10414	7.1	49
641	Pressure-induced superconductivity up to 13.1 K in the pyrite phase of palladium diselenide PdSe2. *Physical Review B*, **2017**, 96,	3.3	49
640	Synthesis, crystal structure, and physical properties of Sr2FeOsO6. *Inorganic Chemistry*, **2013**, 52, 6713-9	5.1	49
639	Half-metallic ferromagnetism with high magnetic moment and high Curie temperature in Co2FeSi. *Journal of Applied Physics*, **2006**, 99, 08J103	2.5	49
638	Refinement of the Crystal Structures of Strontium Cobalt Oxychlorides by Neutron Powder Diffraction. *Chemistry of Materials*, **2000**, 12, 3181-3185	9.6	49
637	Photogalvanic effect in Weyl semimetals from first principles. *Physical Review B*, **2018**, 97,	3.3	48
636	Elliptical Bloch skyrmion chiral twins in an antiskyrmion system. *Nature Communications*, **2020**, 11, 1115	17.4	47

635	Dirac dispersion generates unusually large Nernst effect in Weyl semimetals. *Physical Review B*, **2018**, 97,	3.3	47
634	Lattice-site-specific spin dynamics in double perovskite Sr2CoOsO6. *Physical Review Letters*, **2014**, 112, 147202	7.4	47
633	Structure and properties of CoMnSb in the context of half-metallic ferromagnetism. *Physical Review B*, **2006**, 74,	3.3	47
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631	The Role of Ionized Impurity Scattering on the Thermoelectric Performances of Rock Salt AgPbmSnSe2+m. *Advanced Functional Materials*, **2016**, 26, 5149-5157	15.6	47
630	Bei Raumtemperatur flüssige ionische Verbindungen auf Dysprosium-Basis mit starker Lumineszenz und Reaktion auf magnetische Felder. *Angewandte Chemie*, **2008**, 120, 7747-7750	3.6	46
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