Claudia Felser

List of Publications by Year in Descending Order

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	Direct observation of the spin–orbit coupling effect in magnetic Weyl semimetal Co3Sn2S2. *Npj Quantum Materials*, **2022**, 7,	5	1
813	Quasi-quantized Hall response in bulk InAs.. *Scientific Reports*, **2022**, 12, 2153	4.9	0
812	Grain boundary in NbCo(Pt)Sn half-Heusler compounds: Segregation and solute drag on grain boundary migration. *Acta Materialia*, **2022**, 226, 117604	8.4	1
811	Topological Hall effect arising from the mesoscopic and microscopic non-coplanar magnetic structure in MnBi. *Acta Materialia*, **2022**, 226, 117619	8.4	0
810	Spin-voltage-driven efficient terahertz spin currents from the magnetic Weyl semimetals Co2MnGa and Co2MnAl. *Applied Physics Letters*, **2022**, 120, 082401	3.4	5
809	Spintronic THz emitters based on transition metals and semi-metals/Pt multilayers. *Applied Physics Letters*, **2022**, 120, 122406	3.4	1
808	Ultrafast sub-100 fs all-optical modulation and efficient third-harmonic generation in Weyl semimetal niobium phosphide thin films.. *Advanced Materials*, **2022**, e2106733	24	0
807	Progress and prospects in magnetic topological materials.. *Nature*, **2022**, 603, 41-51	50.4	9
806	Catalogue of flat-band stoichiometric materials.. *Nature*, **2022**, 603, 824-828	50.4	4
805	Obstructed surface states as the descriptor for predicting catalytic active sites in inorganic crystalline materials.. *Advanced Materials*, **2022**, e2201328	24	0
804	Noncollinear magnetic order in epitaxial thin films of the centrosymmetric MnPtGa hard magnet. *Applied Physics Letters*, **2022**, 120, 172403	3.4	1
803	FAIR data enabling new horizons for materials research.. *Nature*, **2022**, 604, 635-642	50.4	6
802	Observation of fractional spin textures in a Heusler material.. *Nature Communications*, **2022**, 13, 2348	17.4	0
801	Observation of a linked-loop quantum state in a topological magnet.. *Nature*, **2022**, 604, 647-652	50.4	1
800	All topological bands of all nonmagnetic stoichiometric materials.. *Science*, **2022**, 376, eabg9094	33.3	8
799	Signatures of Weyl Fermion Annihilation in a Correlated Kagome Magnet.. *Physical Review Letters*, **2021**, 127, 256403	7.4	3
798	Metallic Magnetic Materials **2021**, 693-808		

797	Giant anomalous Nernst signal in the antiferromagnet YbMnBi. *Nature Materials*, **2021**,	27	6
796	Topological phase transition in a magnetic Weyl semimetal. *Physical Review B*, **2021**, 104,	3.3	1
795	Direct Measurement of Helicoid Surface States in RhSi Using Nonlinear Optics. *Physical Review Letters*, **2021**, 127, 157405	7.4	2
794	Temperature dependence of quantum oscillations from non-parabolic dispersions. *Nature Communications*, **2021**, 12, 6213	17.4	1
793	Giant Topological Hall Effect in the Noncollinear Phase of Two-Dimensional Antiferromagnetic Topological Insulator MnBiTe. *Chemistry of Materials*, **2021**, 33, 8343-8350	9.6	2
792	Broadband optical conductivity of the chiral multifold semimetal PdGa. *Physical Review B*, **2021**, 103,	3.3	3
791	Crystal Growth of a New 8H Perovskite Sr8Os6.3O24 Exhibiting High TC Ferromagnetism. *Crystal Growth and Design*, **2021**, 21, 2459-2464	3.5	0
790	Enhancement of basal plane electrocatalytic hydrogen evolution activity via joint utilization of trivial and non-trivial surface states. *Applied Materials Today*, **2021**, 22, 100921	6.6	5
789	2D-Berry-Curvature-Driven Large Anomalous Hall Effect in Layered Topological Nodal-Line MnAlGe. *Advanced Materials*, **2021**, 33, e2006301	24	3
788	Linkage between scattering rates and superconductivity in doped ferropnictides. *Physical Review B*, **2021**, 103,	3.3	3
787	Large anomalous Hall effect in the kagome ferromagnet LiMn6Sn6. *Physical Review B*, **2021**, 103,	3.3	5
786	(Quasi-)Quantization of the electrical, thermal, and thermoelectrical conductivities in two and three dimensions. *Journal of Physics Communications*, **2021**, 5, 045007	1.2	1
785	Extremely large magnetoresistance from electron-hole compensation in the nodal-loop semimetal ZrP2. *Physical Review B*, **2021**, 103,	3.3	5
784	Magnetocrystalline anisotropies in MnxPtSn thin films. *APL Materials*, **2021**, 9, 051104	5.7	
783	Topological magnetic order and superconductivity in EuRbFe4As4. *Physical Review B*, **2021**, 103,	3.3	1
782	Origin of the quasi-quantized Hall effect in ZrTe. *Nature Communications*, **2021**, 12, 3197	17.4	5
781	Hard magnet topological semimetals in XPt3 compounds with the harmony of Berry curvature. *Communications Physics*, **2021**, 4,	5.4	3
780	Giant Anomalous Hall Conductivity in the Itinerant Ferromagnet LaCrSb3 and the Effect of f-Electrons. *Advanced Quantum Technologies*, **2021**, 4, 2100023	4.3	2

779	Critical sample aspect ratio and magnetic field dependence for antiskyrmion formation in Mn1.4PtSn single crystals. *Physical Review B*, **2021**, 103,	3.3	1
778	Magnetic and electronic ordering phenomena in the Ru2O6-layer honeycomb lattice compound AgRuO3. *Physical Review B*, **2021**, 103,	3.3	1
777	Observation of the critical state to multiple-type Dirac semimetal phases in KMgBi. *Journal of Applied Physics*, **2021**, 129, 235109	2.5	
776	Observation of a singular Weyl point surrounded by charged nodal walls in PtGa. *Nature Communications*, **2021**, 12, 3994	17.4	1
775	Pressure-induced superconductivity and modification of Fermi surface in type-II Weyl semimetal NbIrTe4. *Npj Quantum Materials*, **2021**, 6,	5	3
774	Evidence for one-dimensional chiral edge states in a magnetic Weyl semimetal CoSnS. *Nature Communications*, **2021**, 12, 4269	17.4	7
773	Nanoscale Noncollinear Spin Textures in Thin Films of a D Heusler Compound. *Advanced Materials*, **2021**, 33, e2101323	24	4
772	Large Anomalous Hall and Nernst Effects in High Curie-Temperature Iron-Based Heusler Compounds. *Advanced Science*, **2021**, 8, e2100782	13.6	8
771	Large linear non-saturating magnetoresistance and high mobility in ferromagnetic MnBi. *Nature Communications*, **2021**, 12, 4576	17.4	4
770	Ganzheitliche Betrachtung in der Materialentwicklung: Wasser-Elektrolyse als Fallbeispiel. *Angewandte Chemie*, **2021**, 133, 20254-20260	3.6	0
769	On the anomalous low-resistance state and exceptional Hall component in hard-magnetic Weyl nanoflakes. *Science China: Physics, Mechanics and Astronomy*, **2021**, 64, 1	3.6	3
768	Topological Quantum Materials from the Viewpoint of Chemistry. *Chemical Reviews*, **2021**, 121, 2780-2815	63.1	19
767	Structure and magnetism of new A- and B-site ordered double perovskites ALaCuOsO6 (A = Ba and Sr). *Journal of Solid State Chemistry*, **2021**, 293, 121784	3.3	4
766	Thermoelectric Properties of Novel Semimetals: A Case Study of YbMnSb. *Advanced Materials*, **2021**, 33, e2003168	24	15
765	Tunable eg Orbital Occupancy in Heusler Compounds for Oxygen Evolution Reaction**. *Angewandte Chemie*, **2021**, 133, 5864-5869	3.6	7
764	Tunable e Orbital Occupancy in Heusler Compounds for Oxygen Evolution Reaction*. *Angewandte Chemie - International Edition*, **2021**, 60, 5800-5805	16.4	11
763	The topology of electronic band structures. *Nature Materials*, **2021**, 20, 293-300	27	25
762	Evidence for Dominant Phonon-Electron Scattering in Weyl Semimetal WP2. *Physical Review X*, **2021**, 11,	9.1	6

761	Evolution of transition metal charge states in correlation with the structural and magnetic properties in disordered double perovskites CaLaFeRuO (0.5≤2). *Physical Chemistry Chemical Physics*, **2021**, 23, 21769-21783	3.6	2
760	Metallic Magnetic Materials **2021**, 1-116		
759	Giant topological longitudinal circular photo-galvanic effect in the chiral multifold semimetal CoSi. *Nature Communications*, **2021**, 12, 154	17.4	23
758	Magnetic and Electronic Properties of Weyl Semimetal CoMnGa Thin Films. *Nanomaterials*, **2021**, 11,	5.4	5
757	Role of Magnetic Exchange Interactions in Chiral-Type Hall Effects of Epitaxial MnxPtSn Films. *ACS Applied Electronic Materials*, **2021**, 3, 1323-1333	4	4
756	Thermoelectric Materials: Thermoelectric Properties of Novel Semimetals: A Case Study of YbMnSb2 (Adv. Mater. 7/2021). *Advanced Materials*, **2021**, 33, 2170051	24	0
755	Field-induced charge symmetry revealed by nuclear magnetic resonance in the topological insulator Bi2Te3. *Physical Review Research*, **2021**, 3,	3.9	1
754	Layer Hall effect in a 2D topological axion antiferromagnet. *Nature*, **2021**, 595, 521-525	50.4	15
753	Holistic View on Materials Development: Water Electrolysis as a Case Study. *Angewandte Chemie - International Edition*, **2021**, 60, 20094-20100	16.4	4
752	Quantum Oscillations in Ferromagnetic (Sb, V) Te Topological Insulator Thin Films. *Advanced Materials*, **2021**, 33, e2102107	24	2
751	Sondheimer oscillations as a probe of non-ohmic flow in WP crystals. *Nature Communications*, **2021**, 12, 4799	17.4	0
750	Suppression of axionic charge density wave and onset of superconductivity in the chiral Weyl semimetal Ta2Se8I. *Physical Review Materials*, **2021**, 5,	3.2	4
749	Design strong anomalous Hall effect via spin canting in antiferromagnetic nodal line materials. *Physical Review B*, **2021**, 104,	3.3	1
748	Dopant-segregation to grain boundaries controls electrical conductivity of n-type NbCo(Pt)Sn half-Heusler alloy mediating thermoelectric performance. *Acta Materialia*, **2021**, 217, 117147	8.4	6
747	Demonstration of valley anisotropy utilized to enhance the thermoelectric power factor. *Nature Communications*, **2021**, 12, 5408	17.4	17
746	Large magnon-induced anomalous Nernst conductivity in single-crystal MnBi. *Joule*, **2021**, 5, 3057-3067	27.8	6
745	Gradience in subject□verb number agreement: Can bilinguals tune in?. *Applied Psycholinguistics*, **2021**, 42, 1523-1551	1.4	1
744	Anisotropic Nodal-Line-Derived Large Anomalous Hall Conductivity in ZrMnP and HfMnP. *Advanced Materials*, **2021**, 33, e2104126	24	0

743	MoS2 on topological insulator Bi2Te3 thin films: Activation of the basal plane for hydrogen reduction. *Journal of Energy Chemistry*, **2021**, 62, 516-522	12	6
742	Pressure-induced a partial disorder and superconductivity in quasi-one-dimensional Weyl semimetal (NbSe4)2I. *Materials Today Physics*, **2021**, 21, 100509	8	3
741	A charge-density-wave topological semimetal. *Nature Physics*, **2021**, 17, 381-387	16.2	22
740	Evolution and competition between chiral spin textures in nanostripes with symmetry. *Science Advances*, **2020**, 6,	14.3	9
739	Robust metastable skyrmions with tunable size in the chiral magnet FePtMo3N. *Physical Review B*, **2020**, 102,	3.3	1
738	Mg3(Bi,Sb)2 single crystals towards high thermoelectric performance. *Energy and Environmental Science*, **2020**, 13, 1717-1724	35.4	41
737	Water structure near the surface of Weyl semimetals as catalysts in photocatalytic proton reduction. *Structural Dynamics*, **2020**, 7, 034101	3.2	2
736	Mode-resolved reciprocal space mapping of electron-phonon interaction in the Weyl semimetal candidate Td-WTe. *Nature Communications*, **2020**, 11, 2613	17.4	25
735	Tunable Magnetic Antiskyrmion Size and Helical Period from Nanometers to Micrometers in a D Heusler Compound. *Advanced Materials*, **2020**, 32, e2002043	24	14
734	Establishing the carrier scattering phase diagram for ZrNiSn-based half-Heusler thermoelectric materials. *Nature Communications*, **2020**, 11, 3142	17.4	37
733	Emerging chiral edge states from the confinement of a magnetic Weyl semimetal in Co3Sn2S2. *Physical Review B*, **2020**, 101,	3.3	25
732	Visualizing coexisting surface states in the weak and crystalline topological insulator BiTeI. *Nature Materials*, **2020**, 19, 610-616	27	9
731	Anisotropic electrical and thermal magnetotransport in the magnetic semimetal GdPtBi. *Physical Review B*, **2020**, 101,	3.3	7
730	Easy-cone magnetic structure in (Cr0.9B0.1)Te. *Applied Physics Letters*, **2020**, 116, 102404	3.4	3
729	Effect of magnetic field on the hydrogen evolution activity using non-magnetic Weyl semimetal catalysts. *Dalton Transactions*, **2020**, 49, 3398-3402	4.3	6
728	Giant anomalous Hall and Nernst effect in magnetic cubic Heusler compounds. *Npj Computational Materials*, **2020**, 6,	10.9	17
727	Observation and control of maximal Chern numbers in a chiral topological semimetal. *Science*, **2020**, 369, 179-183	33.3	39
726	Signatures of Sixfold Degenerate Exotic Fermions in a Superconducting Metal PdSb. *Advanced Materials*, **2020**, 32, e1906046	24	15

725	Low-dimensional Magnetism and Antiferromagnetic Ordering in the Mixed-valence Spin-chain Cuprate TlCu2O2. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2020**, 646, 308-311	1.3	
724	Thickness dependence of the anomalous Nernst effect and the Mott relation of Weyl semimetal Co2MnGa thin films. *Physical Review B*, **2020**, 101,	3.3	16
723	Elliptical Bloch skyrmion chiral twins in an antiskyrmion system. *Nature Communications*, **2020**, 11, 1115	17.4	47
722	Anomalous and topological Hall effects in epitaxial thin films of the noncollinear antiferromagnet Mn3Sn. *Physical Review B*, **2020**, 101,	3.3	30
721	Topological Engineering of Pt-Group-Metal-Based Chiral Crystals toward High-Efficiency Hydrogen Evolution Catalysts. *Advanced Materials*, **2020**, 32, e1908518	24	35
720	Heterogeneous catalysis at the surface of topological materials. *Applied Physics Letters*, **2020**, 116, 070501	3.4	23
719	Influence of Electron–Phonon Interaction on the Lattice Thermal Conductivity in Single-Crystal Si. *Annalen Der Physik*, **2020**, 532, 1900435	2.6	1
718	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
717	Effects of chronological age on native and nonnative sentence processing: Evidence from subject-verb agreement in German. *Journal of Memory and Language*, **2020**, 111, 104083	3.8	3
716	Magnon spectrum of the Weyl semimetal half-Heusler compound GdPtBi. *Physical Review B*, **2020**, 101,	3.3	5
715	Detection of antiskyrmions by topological Hall effect in Heusler compounds. *Physical Review B*, **2020**, 101,	3.3	19
714	Strong correlation between mobility and magnetoresistance in Weyl and Dirac semimetals. *JPhys Materials*, **2020**, 3, 024003	4.2	5
713	In Situ Induction of Strain in Iron Phosphide (FeP2) Catalyst for Enhanced Hydroxide Adsorption and Water Oxidation. *Advanced Functional Materials*, **2020**, 30, 1907791	15.6	30
712	Intrinsic Anomalous Hall Effect in Ni-Substituted Magnetic Weyl Semimetal CoSnS. *Chemistry of Materials*, **2020**, 32, 1612-1617	9.6	19
711	Observation of giant spin-split Fermi-arc with maximal Chern number in the chiral topological semimetal PtGa. *Nature Communications*, **2020**, 11, 2033	17.4	19
710	Magneto-Optics of a Weyl Semimetal beyond the Conical Band Approximation: Case Study of TaP. *Physical Review Letters*, **2020**, 124, 176402	7.4	12
709	Descriptor for Hydrogen Evolution Catalysts Based on the Bulk Band Structure Effect. *ACS Catalysis* , **2020**, 10, 5042-5048	13.1	21
708	A combined laser-based angle-resolved photoemission spectroscopy and two-photon photoemission spectroscopy study of Td-WTe. *Journal of Physics Condensed Matter*, **2020**, 32, 345503	1.8	2

707	Comprehensive scan for nonmagnetic Weyl semimetals with nonlinear optical response. *Npj Computational Materials*, **2020**, 6,	10.9	12
706	Controlling Dzyaloshinskii-Moriya interactions in the skyrmion host candidates FePd1−xPtxMo3N. *Physical Review Materials*, **2020**, 4,	3.2	8
705	Synthesis, crystal and magnetic structure of the spin-chain compound Ag2RuO4. *Physical Review Materials*, **2020**, 4,	3.2	1
704	Pressure tuning of the anomalous Hall effect in the chiral antiferromagnet Mn3Ge. *Physical Review Materials*, **2020**, 4,	3.2	7
703	Optical conductivity of multifold fermions: The case of RhSi. *Physical Review Research*, **2020**, 2,	3.9	11
702	Spin-dimer ground state driven by consecutive charge and orbital ordering transitions in the anionic mixed-valence compound Rb4O6. *Physical Review B*, **2020**, 101,	3.3	1
701	Brain responses elicited by implausible fillers and filled object gaps in German. *Language Acquisition and Language Disorders*, **2020**, 75-90	0.2	0
700	Largely Suppressed Magneto-Thermal Conductivity and Enhanced Magneto-Thermoelectric Properties in PtSn. *Research*, **2020**, 2020, 4643507	7.8	11
699	Linear and nonlinear optical responses in the chiral multifold semimetal RhSi. *Npj Quantum Materials*, **2020**, 5,	5	14
698	Spin Nernst effect in a p-band semimetal InBi. *New Journal of Physics*, **2020**, 22, 093003	2.9	3
697	Revealing the Intrinsic Electronic Structure of 3D Half-Heusler Thermoelectric Materials by Angle-Resolved Photoemission Spectroscopy. *Advanced Science*, **2020**, 7, 1902409	13.6	31
696	Pressure-Induced Charge Disorder-Order Transition in the CsO Sesquioxide. *Inorganic Chemistry*, **2020**, 59, 1256-1264	5.1	
695	Co3O4-Fe2O3 Nanocrystal Heterostructures with Enhanced Coercivity and Blocking Temperature. *Journal of Physical Chemistry C*, **2020**, 124, 1623-1630	3.8	0
694	Observation of Robust Néel Skyrmions in Metallic PtMnGa. *Advanced Materials*, **2020**, 32, e1904327	24	17
693	Observation of Magnetic Antiskyrmions in the Low Magnetization Ferrimagnet MnRhIrSn. *Nano Letters*, **2020**, 20, 59-65	11.5	28
692	Signatures of the Magnetic Entropy in the Thermopower Signals in Nanoribbons of the Magnetic Weyl Semimetal CoSnS. *Nano Letters*, **2020**, 20, 300-305	11.5	7
691	Ab initio study of quantized circular photogalvanic effect in chiral multifold semimetals. *Physical Review B*, **2020**, 102,	3.3	6
690	Optical signatures of multifold fermions in the chiral topological semimetal CoSi. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 27104-27110	11.5	10

689	Field-Modulated Anomalous Hall Conductivity and Planar Hall Effect in CoSnS Nanoflakes. *Nano Letters*, **2020**, 20, 7860-7867	11.5	9
688	Axion physics in condensed-matter systems. *Nature Reviews Physics*, **2020**, 2, 682-696	23.6	20
687	A New Highly Anisotropic Rh-Based Heusler Compound for Magnetic Recording. *Advanced Materials* , **2020**, 32, e2004331	24	1
686	Topological Hall Signatures of Two Chiral Spin Textures Hosted in a Single Tetragonal Inverse Heusler Thin Film. *ACS Nano*, **2020**, 14, 13463-13469	16.7	12
685	Effect of uniaxial stress on the electronic band structure of NbP. *Physical Review B*, **2020**, 102,	3.3	2
684	Thermoelectric properties of n-type half-Heusler NbCoSn with heavy-element Pt substitution. *Journal of Materials Chemistry A*, **2020**, 8, 14822-14828	13	24
683	Anisotropic fractal magnetic domain pattern in bulk Mn1.4PtSn. *Physical Review B*, **2020**, 102,	3.3	4
682	Unconventional Hall response in the quantum limit of HfTe. *Nature Communications*, **2020**, 11, 5926	17.4	10
681	Helicity-dependent photocurrents in the chiral Weyl semimetal RhSi. *Science Advances*, **2020**, 6, eaba0509	14.3	47
680	40 years of the quantum Hall effect. *Nature Reviews Physics*, **2020**, 2, 397-401	23.6	18
679	Idiosyncratic AgPtO: An Electron Imprecise yet Diamagnetic Small Band Gap Oxide. *Angewandte Chemie - International Edition*, **2020**, 59, 19910-19913	16.4	3
678	Handedness-dependent quasiparticle interference in the two enantiomers of the topological chiral semimetal PdGa. *Nature Communications*, **2020**, 11, 3507	17.4	8
677	Topological Lifshitz transition of the intersurface Fermi-arc loop in NbIrTe4. *Physical Review B*, **2020** , 102,	3.3	4
676	Effect of topology on quasiparticle interactions in the Weyl semimetal WP2. *Physical Review B*, **2020**, 102,	3.3	4
675	Optical conductivity of the type-II Weyl semimetal WTe2 under pressure. *Physical Review B*, **2020**, 102,	3.3	2
674	High-throughput calculations of magnetic topological materials. *Nature*, **2020**, 586, 702-707	50.4	75
673	Large topological Hall effect in an easy-cone ferromagnet (Cr0.9B0.1)Te. *Applied Physics Letters*, **2020**, 117, 052409	3.4	6
672	Electron hydrodynamics in anisotropic materials. *Nature Communications*, **2020**, 11, 4710	17.4	12

671	Structure and Magnetic Properties of Sr2NaOsO6. *European Journal of Inorganic Chemistry*, **2020**, 2020, 3991-3995	2.3	0
670	Idiosyncratic Ag7Pt2O7: An Electron Imprecise yet Diamagnetic Small Band Gap Oxide. *Angewandte Chemie*, **2020**, 132, 20082-20085	3.6	0
669	Crystal Growth of Spin-frustrated Ba4Nb0.8Ir3.2O12: A Possible Spin Liquid Material. *Crystal Growth and Design*, **2020**, 20, 2871-2876	3.5	3
668	Topological thermoelectrics. *APL Materials*, **2020**, 8, 040913	5.7	34
667	Elusive Valence Transition in Mixed-Valence Sesquioxide CsO. *Inorganic Chemistry*, **2019**, 58, 14532-14545	4.1	4
666	Anomalous Hall effect and the role of Berry curvature in Co2TiSn Heusler films. *Physical Review B*, **2019**, 100,	3.3	16
665	Switchable magnetic bulk photovoltaic effect in the two-dimensional magnet CrI. *Nature Communications*, **2019**, 10, 3783	17.4	39
664	Cavity-enhanced high harmonic generation for extreme ultraviolet time- and angle-resolved photoemission spectroscopy. *Review of Scientific Instruments*, **2019**, 90, 083001	1.7	33
663	Thickness dependence of the anomalous Hall effect in thin films of the topological semimetal Co2MnGa. *Physical Review B*, **2019**, 100,	3.3	33
662	Heteroepitaxy of Co-Based Heusler Compound/Muscovite for Flexible Spintronics. *ACS Applied Materials & Interfaces*, **2019**, 11, 35162-35168	9.5	11
661	Discovery of topological Weyl fermion lines and drumhead surface states in a room temperature magnet. *Science*, **2019**, 365, 1278-1281	33.3	187
660	Fermi-arc diversity on surface terminations of the magnetic Weyl semimetal CoSnS. *Science*, **2019**, 365, 1286-1291	33.3	222
659	Magnetic Weyl semimetal phase in a Kagomé crystal. *Science*, **2019**, 365, 1282-1285	33.3	238
658	Optimization of catalytic active sites in non-collinear antiferromagnetic Mn3Pt bulk single-crystal. *Materials Today Physics*, **2019**, 10, 100137	8	4
657	Terahertz transmission through TaAs single crystals in simultaneously applied magnetic and electric fields: Possible optical signatures of the chiral anomaly in a Weyl semimetal. *Results in Physics*, **2019**, 15, 102630	3.7	
656	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
655	Impact of fluoride for hydroxide substitution on the magnetic properties of a Co-based single-ion magnet imbedded in the barium apatite crystal lattice. *CrystEngComm*, **2019**, 21, 1193-1199	3.3	3
654	Fine tuning of magnetization relaxation parameters of the DyO+ single ion magnet in a hydroxy/fluoro-apatite solid solution. *CrystEngComm*, **2019**, 21, 102-107	3.3	5

653	Extremely high conductivity observed in the triple point topological metal MoP. *Nature Communications*, **2019**, 10, 2475	17.4	28
652	Spin glass behavior in the disordered half-Heusler compound IrMnGa. *Physical Review B*, **2019**, 99,	3.3	16
651	Tuning nature and temperature of structural and magnetic phase transitions of Mn3Cu1−xMyN1+xCx (M=Ag, Ni). *Journal of Alloys and Compounds*, **2019**, 793, 185-190	5.7	1
650	Chiral topological semimetal with multifold band crossings and long Fermi arcs. *Nature Physics*, **2019**, 15, 759-765	16.2	98
649	Strong spin-orbit coupling and Dirac nodal lines in the three-dimensional electronic structure of metallic rutile IrO2. *Physical Review B*, **2019**, 99,	3.3	11
648	Observation of Weyl Nodes in Robust Type-II Weyl Semimetal WP_{2}. *Physical Review Letters*, **2019**, 122, 176402	7.4	21
647	Measurement-Protocol Dependence of the Magnetocaloric Effect in Ni-Co-Mn-Sb Heusler Alloys. *Physical Review Applied*, **2019**, 11,	4.3	12
646	High-pressure magnetism of the double perovskite Sr2FeOsO6 studied by synchrotron Fe57 Mössbauer spectroscopy. *Physical Review B*, **2019**, 99,	3.3	3
645	Synergistically creating sulfur vacancies in semimetal-supported amorphous MoS2 for efficient hydrogen evolution. *Applied Catalysis B: Environmental*, **2019**, 254, 1-6	21.8	42
644	Zero-Field Nernst Effect in a Ferromagnetic Kagome-Lattice Weyl-Semimetal Co Sn S. *Advanced Materials*, **2019**, 31, e1806622	24	84
643	Anomalous Nernst effect beyond the magnetization scaling relation in the ferromagnetic Heusler compound Co2MnGa. *NPG Asia Materials*, **2019**, 11,	10.3	93
642	Large anomalous Hall and Nernst effects from nodal line symmetry breaking in Fe2MnX (X = P, As, Sb). *Physical Review B*, **2019**, 99,	3.3	18
641	Topological chiral crystals with helicoid-arc quantum states. *Nature*, **2019**, 567, 500-505	50.4	126
640	New AgPtO: synthesis, crystal structure, physical properties and theoretical analyses. *Dalton Transactions*, **2019**, 48, 5058-5063	4.3	2
639	All Electrical Access to Topological Transport Features in MnPtSn Films. *Nano Letters*, **2019**, 19, 2366-2370	11.5	7
638	Magnetoresistance and anomalous Hall effect in micro-ribbons of the magnetic Weyl semimetal Co3Sn2S2. *Applied Physics Letters*, **2019**, 114, 092403	3.4	10
637	Anisotropic topological Hall effect with real and momentum space Berry curvature in the antiskrymion-hosting Heusler compound Mn1.4PtSn. *Physical Review B*, **2019**, 99,	3.3	22
636	TbO in a calcium apatite matrix featuring a triple trigger-type relaxation of magnetization. *Dalton Transactions*, **2019**, 48, 5299-5307	4.3	8

635	Giant intrinsic spin Hall effect in WTa and other A15 superconductors. *Science Advances*, **2019**, 5, eaav8575	14.3	34
634	Magnetic and electrical transport signatures of uncompensated moments in epitaxial thin films of the noncollinear antiferromagnet Mn3Ir. *Applied Physics Letters*, **2019**, 115, 062403	3.4	8
633	In Situ Modification of a Delafossite-Type PdCoO Bulk Single Crystal for Reversible Hydrogen Sorption and Fast Hydrogen Evolution. *ACS Energy Letters*, **2019**, 4, 2185-2191	20.1	19
632	Are AuPd (= Sc, Y and = Al, Ga, In), Heusler Compounds Superconductors without Inversion Symmetry?. *Materials*, **2019**, 12,	3.5	6
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