

Sebastian Wimmer

List of Publications by Year in descending order

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29
papers

1,067
citations

566801

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525886

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29
all docs

29
docs citations

29
times ranked

1964
citing authors

#	ARTICLE	IF	CITATIONS
1	Uncovering electron scattering mechanisms in NiFeCoCrMn derived concentrated solid solution and high entropy alloys. Npj Computational Materials, 2019, 5, .	3.5	251
2	Symmetry-imposed shape of linear response tensors. Physical Review B, 2015, 92, .	1.1	139
3	Observation of the spin Nernst effect. Nature Materials, 2017, 16, 977-981.	13.3	137
4	Tuning Spin Hall Angles by Alloying. Physical Review Letters, 2016, 117, 167204.	2.9	94
5	Emergence of anisotropic Gilbert damping in ultrathin Fe layers on GaAs(001). Nature Physics, 2018, 14, 490-494.	6.5	75
6	Thermal Conductivity and Electrical Resistivity of Solid Iron at Earth's Core Conditions from First Principles. Physical Review Letters, 2018, 121, 096601.	2.9	60
7	First-principles linear response description of the spin Nernst effect. Physical Review B, 2013, 88, .	1.1	35
8	Fully relativistic description of spin-orbit torques by means of linear response theory. Physical Review B, 2016, 94, .	1.1	34
9	Large spin Hall effect in an amorphous binary alloy. Physical Review B, 2018, 98, .	1.1	30
10	Influence of local lattice distortions on electrical transport of refractory high entropy alloys. Scripta Materialia, 2019, 170, 189-194.	2.6	26
11	Native defects in the Co_2Z full Heusler alloys: Formation and. Physical Review B, 2017, 96, .	1.1	24
12	Spin-orbit-induced longitudinal spin-polarized currents in nonmagnetic solids. Physical Review B, 2015, 92, .	1.1	23
13	Galvanomagnetic and thermogalvanomagnetic transport effects in ferromagnetic fcc $\text{Co}_x\text{Cr}_{1-x}$ from first principles. Physical Review B, 2014, 89, .	1.1	16
14	Temperature dependent electronic transport in concentrated solid solutions of the d-transition metals Ni, Fe, Co and Cr from first principles. Physical Review B, 2018, 98, .	1.1	16
15	High-Throughput Techniques for Measuring the Spin Hall Effect. Physical Review Applied, 2020, 14, .	1.5	16
16	Hidden Mn magnetic-moment disorder and its influence on the physical properties of medium-entropy NiCoMn solid solution alloys. Physical Review Materials, 2019, 3, .	0.9	14
17	Spin caloric transport from density-functional theory. Journal Physics D: Applied Physics, 2019, 52, 073001.	1.3	13
18	Magneto-optic and transverse-transport properties of noncollinear antiferromagnets. Physical Review B, 2019, 100, .	1.1	12

#	ARTICLE	IF	CITATIONS
19	Composition-dependent magnetic response properties of Mn _{1-x} Fe _x Ge alloys. Physical Review B, 2018, 97, .	1.1	11
20	Gilbert damping in noncollinear magnetic systems. Physical Review B, 2018, 98, .	1.1	9
21	Direct <i>in situ</i> measurement of coupled magnetostructural evolution in a ferromagnetic shape memory alloy and its theoretical modeling. Physical Review B, 2015, 92, .	1.1	8
22	Magnon scattering in the transport coefficients of CoFe thin films. Physical Review B, 2018, 98, .	1.1	7
23	Tailoring of the extrinsic spin Hall effect in disordered metal alloys. Physical Review B, 2015, 92, .	1.1	6
24	Transport properties of doped permalloy via <i>ab initio</i> calculations: Effect of host disorder. Physical Review B, 2020, 101, .	1.1	4
25	Chirality-induced linear response properties in noncoplanar $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> \langle \text{mml:mrow}> \langle \text{mml:msub}> \langle \text{mml:mi}> \text{Mn} \langle / \text{mml:mi}> \langle \text{mml:mrow}> \langle \text{mml:mi}> \text{B} \langle / \text{mml:mi}> \langle / \text{mml:mrow}> \langle / \text{mml:math}>$ Physical Review B, 2021, 103, .		
26	Low-temperature suppression of the spin Nernst angle in Pt. Physical Review B, 2021, 104, .	1.1	2
27	First-principles calculations of steady-state voltage-controlled magnetism: Application to x-ray absorption spectroscopy experiments. Physical Review Research, 2020, 2, .	1.3	1
28	Electronic Structure: Metals and Insulators. , 2021, , 1-73.		0
29	Electronic Structure: Metals and Insulators. , 2021, , 187-259.		0