

# Peter Mohn

## List of Publications by Year in descending order

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16  
papers

411  
citations

1040056

9  
h-index

996975

15  
g-index

17  
all docs

17  
docs citations

17  
times ranked

688  
citing authors

#	ARTICLE	IF	CITATIONS
1	A century of zero expansion. Nature, 1999, 400, 18-19.	27.8	108
2	Magnetic state, magnetovolume effects, and atomic order in $\text{Fe}_{65}\text{Ni}_{35}$ Invar alloy: A first principles study. Physical Review B, 2007, 76, .	3.2	71
3	Effects of van der Waals Interactions in the Adsorption of Isooctane and Ethanol on Fe(100) Surfaces. Journal of Physical Chemistry C, 2014, 118, 17608-17615.	3.1	61
4	Layered antiferromagnetism with high Neel temperature in the intermetallic compound Mn <sub>2</sub> Au. Applied Physics Letters, 2008, 93, .	3.3	39
5	Magnetic ordering and exchange interactions in structural modifications of $\text{M}_n\text{Ga}_3$ alloys: Interplay of frustration, atomic order, and off-stoichiometry. Physical Review B, 2016, 93, .	3.2	35
6	First-principles investigation of ferromagnetism and Invar effect in fcc Fe-Cu alloys. Physical Review B, 2005, 71, .	3.2	22
7	Density Functional Investigation of the Adsorption of Isooctane, Ethanol, and Acetic Acid on a Water-Covered Fe(100) Surface. Journal of Physical Chemistry C, 2014, 118, 21428-21437.	3.1	17
8	Critical behavior of disordered fccFe <sub>70</sub> Pt <sub>30</sub> alloy under high pressure. Physical Review B, 2003, 68, .	3.2	11
9	Electronic structure analysis of the pressure induced metamagnetic transition and magnetovolume anomaly in Fe <sub>3</sub> C cementite. Journal of Physics Condensed Matter, 2005, 17, 7345-7352.	1.8	11
10	Correlated excited states in the narrow band gap semiconductor FeSi and antiferromagnetic screening of local spin moments. Physical Review B, 2018, 98, .	3.2	9
11	Competing magnetic interactions in a spin- $\frac{1}{2}$ square lattice: Hidden order in $\text{Sr}_2\text{Fe}_2\text{O}_7$ . Physical Review B, 2017, 96, .	3.2	8
12	Suppression of material transfer at contacting surfaces: the effect of adsorbates on Al/TiN and Cu/diamond interfaces from first-principles calculations. Journal of Physics Condensed Matter, 2018, 30, 105001.	1.8	7
13	Microscopic origin of ferro-antiferromagnetic transition upon non-magnetic substitution in Ru <sub>2</sub> (Mn <sub>1-x</sub> V <sub>x</sub> )Ge full Heusler alloys. Journal of Alloys and Compounds, 2017, 692, 178-182.	5.5	5
14	First-principle based simulations of longitudinal spin-fluctuations in metals and integration in classical space with variable spin amplitude. AIP Advances, 2018, 8, .	1.3	4
15	Quantum Monte Carlo simulations for stacked spin-ladder systems containing low concentrations of nonmagnetic impurities: Application to the low-temperature broadening of NMR spectra in SrCu <sub>2</sub> O <sub>3</sub> . Physical Review B, 2013, 88, .	3.2	2
16	Materials and Process Design. , 0, , 861-953.		0